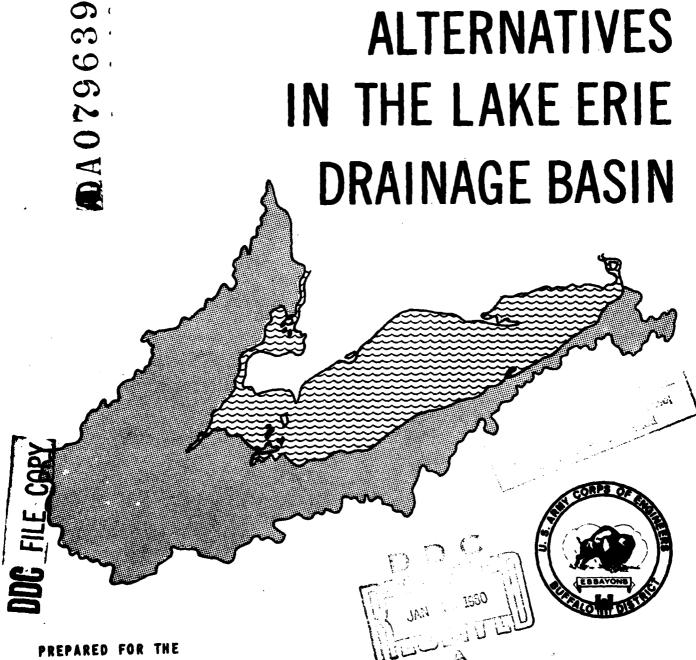


TECHNICAL REPORT



# LAND MANAGEMENT **ALTERNATIVES** IN THE LAKE ERIE DRAINAGE BASIN



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tor of diffuse source sediment and associated phosphorus to Lake Erie. This paper examines the values of potential gross erosion for six land management alternatives with special interest in present cropping practices, popular and

SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered) common practices, and other alternatives which show promise for reducing sediment and phosphorus inputs. This report will first describe the land management alternatives under consideration followed by the method employed in computing values of potential gross erosion. Finally, the potential gross erosion values of several watersheds will be examined.

LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN

March 1979

Lake Brie Wastewater Management Study U. S. Army Engineer District, Buffalo 1776 Niagara Street Buffalo, NY 14207

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# LIST OF POTENTIAL GROSS EROSION ANALYSES

# Major Watersheds

Sampling Station	Map Code	County	Page
Black River at Fargo, MI	2	Sanilac, MI Lapeer, MI St. Clair, MI All in Basin	13 14 15 16
Mill Creek at Avoca, MI	5	Sanilac, MI Lapeer, MI St. Clair, MI All in Basin	17 18 19 20
Belle River at Memphis, MI	1	Lapeer, MI St. Clair, MI Macomb, MI All in Basin	21 22 23 24
Clinton River at Mt. Clemens, MI	3	Lapeer, MI St. Clair, MI Oakland, MI Macomb, MI All in Basin	25 26 27 28 29
Sashabaw Creek at Drayton, MI	8	Oakland, MI*	30
Rouge River at W. Jefferson Bridge	, MI 7	Oakland, MI Washtenaw, MI Wayne, MI All in Basin	31 32 33 34

\*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (cont'd)

Sampling Station	Map Code	County	Page
Huron River at		Toolen MT	35
S. Metro Parkway, MI	4	Ingham, MI	36
		Livingston, MI Oakland, MI	37
		Washtenaw, MI	38
		Wayne, MI	39
		All in Basin	40
Raisin River at			,,
Monroe, MI	6	Monroe, MI	41
•		Jackson, MI	42 43
		Washtenaw, MI	43 44
		Lenawee, MI	44 45
		Fulton, OH	
		All in Basin	46
Maunee River at	_	O	47
Waterville, OH	9	Seneca, OH	48
		Wood, OH	49
		Lucas, OH	50
		Hancock, OH	51
		Wyandot, OH	52
		Hardin, OH	53
		Henry, OH	54
		Hillsdale, MI	55
		Lenawee, MI	56
		Steuben, IN	57
		Williams, OH Fulton, OH	58
		Nobel, IN	59
·		Dekalb, IN	60
		Defiance, OH	61
		Allen, IN	62
		Paulding, OH	63
		Putnam, OH	64
		Wells, IN	65
		Adams, IN	66
		Van Wert, OH	67
		Allen, OH	68
		Mercer, OH	69
		HELCEL ) VIII	

\*Basin Total

Sampling Station	Map Code	County	Page
Maumee River at Waterville, OH		Auglaize, OH Shelby, OH All in Basin	70 71 72
Portage River at Woodville, OH	10	Seneca, OH Sandusky, OH Wood, OH Hancock, OH All in Basin	73 74 75 76 77
Sandusky River at Fremont, OH	12	Crawford, OH Seneca, OH Huron, OH Sandusky, OH Hancock, OH Wyandot, OH Hardin, OH Marion, OH Richland, OH All in Basin	78 79 80 81 82 83 84 85 86
Sandusky River at Mexico, OH	13	Crawford, OH Seneca, OH Wyandot, OH Hardin, OH Marion, OH Richland, OH All in Basin	88 89 90 91 92 93 94
Sandusky River at Upper Sandusky, Of	14	Crawford, OH Wyandot, OH Marion, OH Richland, OH All in Basin	95 96 97 98 99

\*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

Sampling Station	Map Code	County	Page
Sandusky River at Bucyrus, OH	15	Crawford, OH Richland, OH All in Basin	100 101 102
Tymochtee Creek at Crawford, OH	16	Wyandot, OH Hardin, OH Marion, OH All in Basin	103 104 105 106
Broken Sword Creek at Nevada, OH	18	Crawford, OH Wyandot, OH All in Basin	107 108 109
W. Br. Wolf Creek at Bettsville, OH	19	Seneca, OH Hancock, OH All in Basin	110 111 112
E. Br. Wolf Creek nea Bettsville, OH	r 20	Seneca, OH*	113
Honey Creek at Mouth		Crawford, OH Seneca, OH Huron, OH Wyandot, OH All in Basin	114 115 116 117 118
Honey Creek at Rt. 23	1 22	Crawford, OH Seneca, OH Huron, OH Wyandot, OH All in Basin	119 120 121 122 123
Honey Creek at Melmore, OH	17	Crawford, OH Seneca, OH Huron, OH All in Basin	124 125 126 127

<sup>\*</sup>Basin Total

Sampling Station	Map Code	County	Page
Honey Creek upstream from Silver Creek	24	Crawford, OH Seneca, OH Huron, OH All in Basin	128 129 130 131
Honey Creek upstream from Aichholz Ditch	29	Crawford, OH Seneca, OH Huron, OH All in Basin	132 133 134 135
Honey Creek at Rt. 4 near Attica, OH	30	Crawford, OH Seneca, OH Huron, OH All in Basin	136 137 138 139
Honey Creek at Weis Road	32	Crawford, OH Seneca, OH Huron, OH All in Basin	140 141 142 143
Honey Creek Tributary at Weis Road	31	Crawford, OH Huron, OH All in Basin	144 145 146
Honey Creek at Rt. 103 near Waynesburg, OH	3 35	Crawford, OH*	147
Honey Creek Tributary below Mohawk Lake	21	Seneca, OH*	148
Honey Creek Tributary- Buckeye Creek at Rt. 67	23	Crawford, OH Seneca, OH Wyandot, OH All in Basin	149 150 151 152
Honey Creek Tributary- Silver Creek at Mout *Basin Total		Crawford, OH Seneca, OH All in Basin	153 154 155

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

Sampling Station Mag	Code	County	Page
Honey Creek Tributary- Silver Creek Downs- stream from Marsh	26	Crawford, OH Seneca, OH All in Basin	156 157 158
Honey Creek Tributary- Silver Creek Upstream from Marsh	27	Crawford, OH Seneca, OH All in Basin	159 160 161
Honey Creek Tributary- Aichholz Ditch at Co. Rd. 49	28	Crawford, OH Seneca, OH All in Basin	162 163 164
Honey Creek Tributary- Broken Knife Creek at Co. Line Rd.	33	Crawford, OH Seneca, OH Huron, OH All in Basin	165 166 167 168
Honey Creek Tributary at Scott Road	34	Crawford, OH*	169
Honey Creek Tributary- Ackerman Ditch	66	Crawford, OH*	170
Rock Creek East at Co. Rd. 16	72	Seneca, OH*	171
Rock Creek West at Co. Rd. 16	71	Seneca, OH*	172
Huron River at Milan, OH	11	Crawford, OH Seneca, OH Huron, OH Erie, OH Richland, OH All in Basin	173 174 175 176 177
*Basin Total			

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

Sampling Station	Map Code	County	Page
Huron River Tributary- Norwalk Creek near Norwalk, OH	56	Huron, OH≉	179
Vermilion River near Vermilion, OH	36	Huron, OH Erie, OH Richland, OH Ashland, OH All in Basin	180 181 182 183 184
Black River at Elyria, OH	37	Huron, OH Ashland, OH Medina, OH Cuyahoga, OH Lorain, OH All in Basin	185 186 187 188 189 190
Plum Creek at Oberlin, OH	54	Lorain, OH*	191
Neff Run at Litchfield	55	Medina, OH Lorain, OH All in Basin	192 193 194
Rocky River at Berea,	ОН 38	Medina, OH Cuyahoga, OH Summit, OH Lorain, OH All in Basin	195 196 197 198 199
Cuyahoga River at Independence, OH	39	Medina, OH Cuyahoga, OH Summit, OH Geauga, OH Portage, OH Stark, OH All in Basin	200 201 202 203 204 205 206

<sup>\*</sup>Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

Sampling Station	Map Code	County	Page
Cuyahoga River at Old Portage, OH	58	Summit, OH Geauga, OH Portage, OH All in Basin	207 208 209 210
Cuyahoga River at Peninsula, OH	62	Medina, OH Cuyahoga, OH Summit, OH Geauga, OH Portage, OH All in Basin	211 212 213 214 215 216
Cuyahoga River at Hiram Rapids, OH	69	Geauga, OH Portage, OH All in Basin	217 218 219
Little Cuyahoga River at Akron, OH	68	Summit, OH Portage, OH All in Basin	220 221 222
Mud Brook at Akron, Ol	ન 59	Summit, OH*	. 223
Yellow Creek at Botzum, OH	60	Medina, OH Summit, OH All in Basin	224 225 226
Furnace Run at Everett, OH	61	Cuyahoga, OH Summit, OH All in Basin	227 228 229
Brandywine Creek at Jaite, OH	63	Cuyahoga, OH Summit, OH All in Basin	230 231 232
Chippewa Creek at Brecksville, OH	64	Cuyahoga, OH*	233

Sampling Station	Map Code	County	Page
Tinker's Creek at Bedford, OH	65	Cuyahoga, OH Summit, OH Geauga, OH Portage, OH All in Basin	234 235 236 237 238
Big Creek at Cleveland, OH	53	Cuyahoga, OH*	239
Euclid Creek at Euclid, OH	70	Cuyahoga, OH Lake, OH All in Basin	240 241 242
Chagrin River at Willoughby, OH	40	Cuyahoga, OH Lake, OH Geauga, OH Portage, OH All in Basin	243 244 245 246 247
Grand River at Painesville, OH	41	Lake, OH Geauga, OH Portage, OH Ashtabula, OH All in Basin	248 249 250 251 252
Ashtabula River at Ashtabula, OH	42	Ashtabula, OH Erie, OH Crawford, PA All in Basin	253 254 255 256
Hubbard Run at Ashtabula, OH	50	Ashtabula, OH*	257
Conneaut Creek at Conneaut, OH  *Basin Total	43	Ashtabula, OH Erie PA Crawford, PA All in Basin	258 259 260 261

Sampling Station	Map Code	County	Page
Raccoon Creek near W. Springfield, PA	48	Erie, PA*	262
Mill Creek near Erie, PA	49	Erie, PA*	263
Cattaraugus Creek at Gowanda, NY	44	Erie, NY Cattaraugus, NY Wyoming, NY Allegany, NY All in Basin	264 265 266 267 268
S. Br. Cattaraugus Cre at Otto, NY	ek 45	Cattaraugus, NY*	269
Delaware Creek near Angola, NY	46	Erie, NY*	270
Eighteen Mile Creek at N. Boston, NY	47	Erie, NY*	271
	Direct Dra	ainage Areas	
County			Page
St. Clair, MI Macomb, MI Oakland, MI Wayne, MI Washtenaw, MI Monroe, MI Lenawee, MI Lucas, OH Fulton, OH Henry, OH Wood, OH Ottawa, OH Sandusky, OH Seneca, OH Erie, OH Huron, OH			273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288

# Direct Drainage Areas

County	Page
Lorain, OH	289
Cuyahoga, OH	290
Lake, OH	291
Ashtabula, OH	292
Erie, PA	293
Crawford, PA	294
Chautauqua, NY	295
Cattaraugus, NY	296
Erie, NY	297
All in Basin (Direct Drainage Totals)	298
Lake Erie Drainage Basin Summary	300

### **ABSTRACT**

The Universal Soil Loss Equation was used to compute values of potential gross erosion associated with six different land management alternatives in the U. S. portion of the Lake Erie Drainage Basin. The six cropland scenarios are:

- 1. Existing conditions
- 2. Spring plowing
- 3. Fall plowing
- 4. Winter cover crop
- 5. Maximum reduction tillage and
- 6. Reduced tillage-chisel plowing

The Appendix contains the potential gross erosion values for each major watershed in the U. S. portion of the Lake Erie Drainage Basin. Three of these watersheds, Maumee River, Honey Creek, and Cattaraugus Creek are further discussed within the text as examples of the kinds of observations which may be drawn from the scenario results.

Of the six land management alternatives listed above, maximum reduction tillage and reduced tillage-chisel plowing are most effective in reducing potential gross erosion. Spring plowing and winter cover crop offer little reduction while the fall plowing scenario actually increases potential gross erosion over the present existing conditions.

### INTRODUCTION

Previous studies have shown that diffuse sources of phosphorus must be managed if the trophic status of Lake Erie is to be reduced (LEWMS, 1975, 1979). Agriculture, in particular, cropland, is a predominant land use and contributor of diffuse source sediment and associated phosphorus to Lake Erie. This paper examines the values of potential gross erosion for six land management alternatives with special interest in present cropping practices, popular and common practices, and other alternatives which show promise for reducing sediment and phosphorus inputs.

This report will first describe the land management alternatives under consideration followed by the method employed in computing values of potential gross erosion. Finally, the potential gross erosion values of several watersheds will be examined.

### LAND MANAGEMENT ALTERNATIVES

The following land management scenarios have been chosen for comparison of potential gross erosion values;

- 1. Existing practices
- 2. Spring plowing
- 3. Fall plowing
- 4. Winter cover crop
- 5. Maximum reduction tillage
- 6. Reduced tillage-chisel plowing

# Existing Practices

Potential grows erosion was computed for cropland under present farming practices to show whether other alternatives would result in increased or decreased erosion values. Existing farming practices include various combinations of the alternatives listed above, however, fall moldboard plowing predominates.

# Spring Plowing

The spring plowing scenario assumes all cropland would be moldboard plowed in the spring. Cropland which presently is not plowed in the spring (e.g., fall plowed, no-till and reduced tillage) would undergo spring plowing.

### Fall Plowing

Under this scenario all cropland would be moldboard plowed after fall harvest. As stated above, most cropland is presently fall plowed. This alternative proposes to change all spring plowing, winter cover crop, no-till, and reduced tillage practices now occurring in the Lake Erie Drainage Basin to fall moldboard plowing. Fall moldboard plowing can have a tremendous influence on soil losses since mineral soil is exposed to the erosive forces of raindrop impact and surface runoff. Some of the highest values of potential gross erosion can be expected with this common farming practice.

# Winter Cover Crop

Often proposed as an erosion control measure, winter cover crops are initiated after harvest to provide protection from snowmelt runoff and early spring rains. This alternative proposes establishment of winter cover crops with other present farming methods remaining unchanged.

### Maximum Reduction Tillage

Maximum reduction tillage refers to that tillage practice which most effectively reduces erosion while also causing little or no reduction in net farm income. No-till is the most effective erosion control tillage practice included in the maximum reduction tillage scenario. As will be discussed later, no-till produces excellent crop yields on soils with good drainage but should not be used on poorly drained soils. Reduced tillage-chisel plowing is not quite as effective as no-till for reducing erosion but it is more profitable on somewhat poorly drained soils. For soils which are very poorly drained, conventional moldboard plowing is recommended. In conclusion, under the maximum reduced tillage alternative, no-till, reduced tillage-chisel plowing, or moldboard plowing is prescribed depending on soil drainage characteristics. The practice which provides the greatest erosion control with the least negative profit impact is prescribed.

# Reduced Tillage-Chisel Plowing

The reduced tillage-chisel plowing scenario is similar to the maximum reduction tillage scenario except that application of no-till to suitable soils is eliminated. Reduced tillage-chisel plowing is the crop management practice applied to those soils which exhibit suitable drainage and crop response. Conventional moldboard plowing is still assumed for poorly drained soils which do not respond well to reduced tillage-chisel plowing.

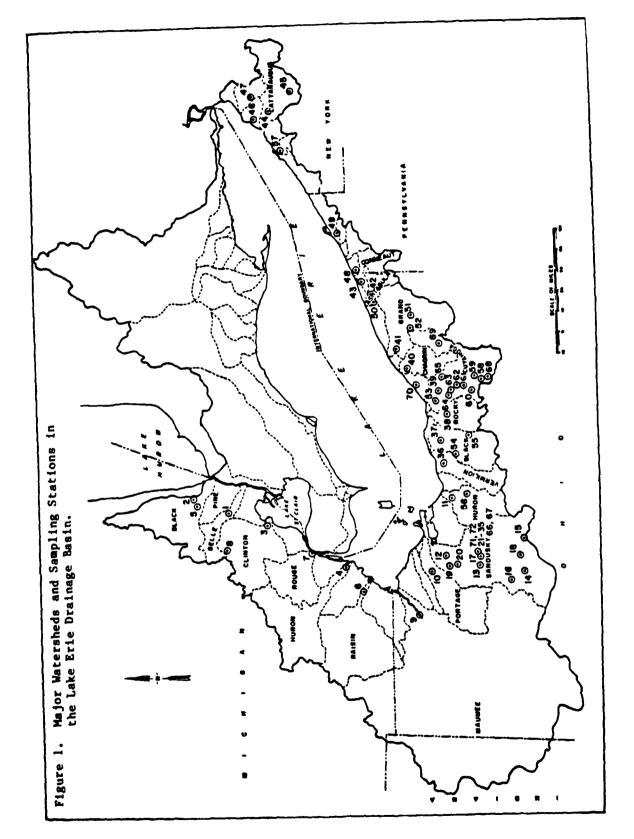
### **METHODS**

The Lake Erie Drainage Basin was partitioned into major watersheds and direct drainage areas. The major watersheds are described in Table 1 and Figure 1. Direct drainage areas are those which are downstream of a major watershed or between major watersheds. Potential gross erosion for major watersheds and direct drainage areas was computed on a county basis with county, watershed, and Lake Erie Drainage Basin totals displayed in the appendix. Before describing the results of applying the USLE to the previously stated land management alternatives the method of analysis will be discussed.

Table 1. Major Watersheds in U.S. Lake Erie Drainage Basin

	Station Sumber	: Sampling Site :		: Nap Code	:No. of Sample :_Amalyzed
lelle :	_	: Nomphis, MI :			: 60
Nack :		Fargo, Mi		1	. 61
liatos :		: Mr. Clemens, Mi :	734	_	: 63
luron :		: S. Matropolitan Fkwy., Ml :	84 9		: 50
till Creek :		: Avoca, Ni :		\$ 5	: 65
laisia :		: Monroe, Ml		: 6	: 61
louge iashabaw Greek :		: W. Jefferson Bridge, Ni : : Drayton Plains, Ni :		; 7 ; 8	: 57
		: Weterville, CH :		: 8	: 62 : 1,411
Portage :		: Woodville, CB :		: 10	: 1.292
lu fon :		: Milan, OE :		: 11	1,543
iandusky :	04198000 (1)	: Premont, CR :		: 12	: 1,283
andusky :		: Nexico, OE :		: 13	: 908
andusky 1		: Upper Sandunky, OE :		: 14	: 1,139
endusky :	1.71.11.	: Bucyrus, CE :		: 15	: 1,180
'ywochtee Creek : Josey Creek :		: Crawford, OH : : Melmore, OB :		: 16	: 973
roken Sword		: Melmore, CB : : Nevada, CR :		: 18	: 1,194
olf Creek		:			: >00
West Branch		: Bettsville, CB :		: 19	: 930
olf Creek		:		:	:
East Branch	04197450 (1)	: Bettsville, OH :	<b>82.3</b>	: 20	: 929
lohavk Lake :	: ▲ (3)	: Tributary below Mohawk :	5.3	: 21	: 22
		: lake :	_	:	:
oney Creek	- 1-7	: At Noute 231 :		: 22	: 43
uckeye Creek : onev Creek :		: At Route 67		: 23	: 34
oney Creek : ilver Creek :	· · · · · · · · · · · · · · · · · · ·	: Upstm. from Silver Creek : Confluence with Roney Cr. :		: 24 : 25	: 34
11ver Creek		: Downstream from Marsh :	1	: 26	: 35 : 43
	(5)	: Upstm. from Marsh :		: 27	: 43
		: Honey Creek, County Nd. 49:		: 28	: 32
oney Creek :		: Upstm. from Aichhols Ditch:		; 29	: 42
oney Creek		: Attica, Boute 4 :	75.6	: 30	: 41
oney Creek :		: Weis Road :		: 31	: 33
	: 6 (3)	: Upstm. from Brokenknife :		: 32	: 31
	Dor 9 (3)	: County Line Road :		: 33	: 35
	: <b>B</b> (3) : 10 (3)	: R.R. North at Scott Md. :		: 34	: 29
oney Creek : erailion :		: Rt. 103 : : Vermilion, OH :	. 73	: 35 : 36	: 34 : 106
lack River		: Vermilion, OH : : Elyria, OH :		: 37	: 106
ocky :		: Berea, CR	. =	: 38	: 60
uyahoga		: Independence, OH	200	: 39	: 441
. '	04209000 (1)	: Willoughby, OH :	21.	: 40	: 101
rend :	: 04212200 (1)	: Painesville, OH :	701	: 41	: 63
shtabula River :	: <b>04</b> 21 <b>230</b> 0 (1)	: Ashtabula, OH :	121	: 42	: 23
onneaut Creek :		: Conneaut, CE :		: 43	: 23
atteraugus Creek		: Gowanda, NY :	17.7	: 44	: 142
. Br. Cattaraugus:		: Octo, MY		: 45	: 77
tleware Greek : 8 Mile Greek :		: Angola, NY		: 46	: 77
	: 04214200 (1) : 04213040 (1)	: N. Boston, WY : W. Springfield, PA		: 47 : 48	: 77
ill Creek		: Erie, PA		: 49	: 53
	04212600 (1)	: Ashtabula, CE		: 50	: 38
· · · · · · · · · · · · · · · · · · ·	04210100 (1)	: Martagrove, OH		: 51	: 40
ontville Ditch	04210090 (1)	: Montville, OH :		: 32	: 40
	: 04208502 (1)	: Cleveland, OH :		: 53	: 60
• • •	: 04200100 (1)	: Oberlin, OH :		: 54	: 64
	: 04199800 (1)	: Litchfield, OB		: 55	: 60
	: 04198100 (1)	: Norwalk, OB :		: 56	: 60
	: : 04206000 (1)		: 34.9 : 404	: 57	: 36
	: 04206000 (1) : 04206050 (1)	: Old Fortage, GE : Akron, GE :		: 58 : 59	: 197 : 162
	: 04206220 (1)	: Botsum, CH	1	: 60	: 177
	: 04206370 (1)		17.7	: 61	: 162
	: 04206400 (1)	: Peninsula, CE		: 62	: 353
randywise Creek	: 04206420 (1)	: Jaite, OB :		: 63	: 176
	: 04206450 (1)	: Brocksville, OB		: 64	: 154
	: 04207200 (1)	: Bedford, CE		: 65	: 313
	: G (3)		4.4	: 66	: 32
	: AA (3)	: Tributary above Hobank	3.72	: 67	: 34
ittle Guyahoga R. Guyahoga River			59.2	: 68	: 24 : 39
	: 04202000 (1) : 04208690 (1)		: 151 : 22.6	: <b>69</b> : 70	: 39 : 189
	: M200090 (1) : MM (4)		: 22.6	: 71	: 34
	: RCE (4)	: County Md 16		: 72	33

<sup>(1)</sup> D.S. Geological Survey Station Code
(2) Michigan Department of Smitural Resources Code
(3) Corps of Engineers Honey Creek Matershed Code
(4) Corps of Engineers Code



# Universal Soil Loss Equation

The Universal Soil Loss Equation (USLE), is an empirical approach for computing potential gross erosion using climatic, soil, topographic, crop management, and conservation practice data (Smith and Wischmeier, 1957, 1962). The USLE is:

A = (R) X (K) X (LS) X (C) X (P)

where A = average annual soil loss (tons/acre/yr)

R = erosive potential rainfall factor

K = soil erodibility factor

LS = topographic slope and slope length factor

C = crop management factor

P = conservation practice factor

The crop management factor C, is the only parameter which changes as different land management alternatives are applied to Lake Erie Drainage Basin cropland. Mentioned previously, application of land management alternatives such as no-till and reduced tillage-chisel plowing are dependent upon soil drainage properties. Therefore, before a C factor can be assigned to an area under consideration for maximum reduced tillage, no-till, or reduced tillage-chisel plowing, the drainage characteristics of the soil must be known. For this reason, soil management groups were established for cropland soils which exhibit similar drainage characteristics and similar response to no-till and reduced tillage-chisel plowing.

# Soil Management Groups (SMGs)

Ten SMGs were used in the analysis of land management alternatives. The SMGs are adapted from Triplett et al and listed below:

Tillage group 1 - Soils in this group have yield response to no tillage equal to or greater than conventional tillage. Soils are moderately well, well, and excessively well drained. They have silt loam, loam, sandy loam, or loamy fine sand surface texture. They are low in organic matter.

Tillage group 2 - These soils should have yield responses to no tillage nearly equal to conventional tillage if soil drainage has been improved. These soils are somewhat poorly drained in their natural state. They have a silt loam, loam, sandy loam, or loamy fine sand surface texture. They are low in organic matter.

Tillage group 3 - These soils yield less with no tillage than conventional tillage. They are somewhat poorly to very poorly drained. Tile does not provide adequate drainage. Surface texture is loam,

 $\mbox{silt loam, or silty clay loam.}$  Most of these soils are low in organic matter.

Tillage group 4 - Soils in this group may yield less with no tillage than conventional tillage. They are very poorly drained. They have surface textures of silty clay loam and clay loam. They contain relatively high amounts of organic matter in the surface.

Tillage group 5 - These are organic soils, alluvial soils, and certain fine textured soils. These soils do not respond well to no tillage.

Soil Management groups 6-9 have the same subsurface characteristics as SMGs 2-5 respectively; however, the surface texture of SMGs 6-9 are silty clay or clay. The differentiation of SMGs 2-5 and 6-9 by surface texture was necessary to examine potential gross erosion of surface silty clays and clay which may contribute greater quantities of sediment phosphorus to receiving waters. SMG 10 includes all soils located on slopes equal to or greater than 18 percent.

Under the maximum reduction scenario, no-till is applied to cropland soils in SMGs 1, 2, 6, and 10. Reduced tillage-chisel plowing is assumed for SMGs 4 and 8 while conventional moldboard plowing is used on SMGs 3, 5, 7, and 9.

Under the reduced tillage-chisel plowing scenario, SMGs 1, 2, 4, 6, 8, and 10 undergo chisel plowing. Again, conventional tillage is applied to SMGs 3, 5, 7, and 9.

### RESULTS - SELECTED WATERSHEDS

The Maumee River, Honey Creek, and Cattaraugus Creek Watersheds have been chosen for discussion of potential gross erosion values. All three of these watersheds have a special significance in the United States portion of the Lake Erie Drainage Basin. The Maumee River is the largest contributor of diffuse source phosphorus to the highly eutrophic Western Basin of Lake Erie. Honey Creek, on the other hand, is a demonstration watershed for implementation of no-till and reduced tillage crop management scenarios; note that existing conditions discussed in this report do not include recently established no-till and reduced tillage cropland. Finally, Cattaraugus Creek Watershed was selected for discussion because it contains some of the greatest slopes in the Lake Erie Drainage Basin - a factor which has a large influence on potential gross erosion.

### Maumee River Watershed

Potential gross erosion values for the Maumee River Watershed are shown on p. 72 of the Appendix. Total potential gross erosion (PGE) of cropland, grassland, and woodland in the Maumee River Basin is 9,128,000 tons/year on 2,993,000 acres (1,200,000 hectares), 3.05 tons/ac/yr (6.8 metric tonnes/hectare/yr). At least 67 percent of the cropland experiences soil erosion at a rate less than T, the tolerable soil loss rate, and only 1.4 tons/ac/yr (3.14 tonnes/hectare/yr). The remaining cropland is eroding at an average rate of 7.9 tons/ac/yr (17.7 tonnes/hectare/yr). By bringing the cropland which currently exceeds T to within T the average potential gross erosion rate could be reduced 44.2 percent to 1.7 tons/ac/yr (3.8 tonnes/hectare/yr) for the entire basin.

The variation of potential gross erosion among soil groups is particularly interesting. It is apparent that the highest gross erosion rates occur on soils with the greatest opportunity for improvement. SMG I has a current PGE of 9.4 tons/ac/yr (20.9-tonnes/hectare/yr). The principal reason for SMG I having the greatest PGE (outside SMG 10) is that it has the highest average slope of the SMGs at approximately seven percent.

Within the Maumee River Watershed lie Williams and Putnam Counties. The potential gross erosion tables for these two counties are located on p. 57 and p. 64. From these tables it is apparent that Williams County has some of the greatest values of PGE while Putnam has some of the lowest. A closer inspection of these tables reveals the reason for the difference in values between the two counties.

Williams County exhibits a present potential gross erosion rate which is more than double that of Putnam County. The presence of SMG 10 in Williams County indicates high land slopes which is likely responsible for the high PGE values.

Encouraging is the fact that in Williams County those soil management groups which possess the greatest acreages and potential gross erosion values are also suitable to no-till and reduced tillage farming; soil management groups I and 2 make up 66 percent of the cropland soils in Williams County. With implementation of the maximum reduction scenario potential gross erosion is reduced 77.6 percent and the rate of PGE is even lower than Putnam County under the same scenario.

PGE from cropland in Putnam County is only reduced 32 percent under the maximum reduction scenario. The reason for this lower reduction is that 45 percent of the land is in SMGs 3 and 9 and remains in conventional tillage under this scenario. While the conclusion that the maximum reduction scenario is an effective management strategy for the Maumee River Basin (a 73 percent reduction in potential gross erosion from cropland), there are counties in the basin such as Putman which require other soil conservation practices.

## Honey Creek Watershed

Potential gross erosion values for the Honey Creek Watershed are summarized on p. 118. Cropland SMGs 1, 2, and 10 again exhibit the greatest rates of PGE at 8.0, 3.7, and 112.9 tons/ac/yr respectively. After implementation of maximum reduction tillage these values would drop to 1.2, 0.5, and 16.6 tons/acre/yr. Under maximum reduction tillage and reduced tillage scenarios the entire watershed would exhibit an 80 and 53 percent reduction in PGE respectively. Of the remaining scenarios, winter cover crop and spring plowing show only slight reductions in PGE. Conversely, fall plowing alone results in a seven percent increase in PGE. Maximum reduction tillage and reduced tillage-chisel plowing are obviously the preferred scenarios.

# Cattaraugus Creek Watershed

Nine percent of the cropland in the Cattaraugus Creek Watershed is located on slopes greater than 18 percent (p. 268). This land accounts for the relatively high cropland PGE of 6.2 tons/ac/yr. Because almost 50 percent of the watershed is in low PGE woodland, grassland, and pasture, however, the average PGE for the basin is reduced to 3.2 tons/ac/yr.

A large variation exists in PGE values for the different land management alternatives. Switching to spring plowing or winter cover crop does little to reduce PGE while fall plowing alone increases PGE by 12 percent. Implementation of no-till and reduced tillage, on the other hand, will lower PGE 54 and 35 percent under maximum reduction tillage and reduced tillage-chisel plow scenarios respectively.

### CONCLUSIONS

The adoption of the maximum reduction tillage scenario will result in a large reduction of PGE in the United States portion of the Lake Erie Basin. Its application of no-till and reduced tillage crop management systems to only those soils which exhibit adequate crop response assures the same or greater profit to the farmer. Though maximum reduction tillage results in the lowest PGE of any land management alternative investigated in this report, there are counties in the basin such as Putnam County, Ohio, where other soil conservation methods will be required.

The reduced tillage-chisel plowing scenario also shows favorable reductions in PGE as compared to present conditions though not as

great as the maximum reduction tillage alternative. Spring plowing and winter cover crop scenarios offer little or no reduction in PGE. Fall plowing of all cropland would increase PGE by 5-12 percent. In conclusion, maximum reduction tillage and reduced tillage-chisel plowing scenarios offer the most effective method to reduce cropland soil loss and diffuse source phosphorus input to Lake Erie.

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# APPENDIX E

# Major Watersheds

Note: In some cases the summation of values for watershed counties will not equal the "All in Basin" total for the watershed due to slight errors in data collection and coding

LAKE ERIE JASTEJATER VANAGEMIVT STUDY U.S. ARMY CORPS OF ENGIVEERS. RUFFALO DÍSTRÍCÍ Land managemeut altervatives : rest management practice scenarios

	53.14 4641. F#157146 52.14 140 711. L058 4464 71 FACTOR (ACRES) (ACRES)		135465.7 0.0	A89.6	3321.1 0.0	17672.9 0.0	266.9 266.9	195953.5				SS EROSION 69909-5 64599-5 74021-0 70645-5 31109-2 63483-3 222463-3
_	AXIMUM REDUCE) S31L MEMI. CDUCTION TILLAGE: 323P LAND ILLAGE CMISEL PLOW AMEA TOWS) (TOMS) (ACRES) TOWSACRE) (TOWS/ACRE)	29795.0	27730.1	344.2	666.1	1218.0	1759.0	61517.5			•	63683.9
32 SAYILAC, MICHIGAN	MAXIMUM REDUCTION TILLAGE (TONS) (TONS)	13900.8	12942.7	344.1	666.1	1218.0	820.9 3.1	-1	ACRES)	ACRES)	ACRESI	31104.2
	MINTER COVER CROVE (TOVS)	37245.0 33272.2	30970.1	344.1	745.8	1218.0	1964.3	-1	5021.2 (ACRES)	27055.0 (ACRES)	5179.3 (ACRES)	79645.5
COUNTY	<b>LA</b> :	=	34668.0	585.2	832.6	1363.4	2198.8 R.2	76693.0	JATER AREA OMLY	JTHER LAND JSF AREA	TISSING DATA	79021.0
ī	***	32775.6	30507.A	0.955	732.7	1199.8	1934.9	67489.8	(TONS) JAI (ACRES) ARE (TONS/ACRE)	ACRE	(TONS) 415 (ACRES) (TONS/ACRE)	69598.5
FARGO+HI	REDUCE SOIL SPRING AND EXISTING ONLY (10NS) (70NS)	33272.2 . 4	30970.1	300.1	743.8	1218.0	1245.4	[	41.2 (T 266.9 (A .15 (T	1P1.5 (TONS) 9123.1(4CRES) .02 (TONS)		
PLACK RIVER	GROSS GROSS CROSSION GROSSION GROWS) GROWS) GROWS GROW	33272.2 33272.2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	30970.1		743.8	121A.0	1964.3	66512.5 67793.6 .3 67793.6	41.2 266.9 .15	1 P 1 . 6 9123.1	265.5 11940.1	SJA482Y TOTAL POTENTIAL GROSS EROSION 70645.5 69909.5
SASIN: PLAC	. 40 USF	CROPLAND S46 1	SAOPLAND SAS	CROPLAND SYG 3	343 4	CROPLAND S46 5	343 1ê 343 1ê	STOPLAND	VINEYARDS AND ORCH.	348SLAND AND PASTURE	4300LAND	5.14424 TOTA

LAKE ERIE WASTEWATER MANAGEMENT STUCY Land navagement alternatives : best management practice scenarios

	1000		• •		••	39.5 12.5					
	5)1L 46MT. GROUP LAND A.CA (ACRES)	425.0	2884.2	355.8	118.6	39.5	3925.1			5D.1 (TONS) 41SSING DATA 0.0 (ACRES) 741.5 (ACRES) .07 (TONS/ACRE)	*6.35.9
	REDUCED TILLAGE: CMISEL P.OU (TONS/ACRE)	353.3	2429.3	7.00	12.7	399.5	3234.5				3285.7
COUNTY: 35 LAPEER+ MICHIGAN	<b>TEST</b>	133.9	921.7	.1	12.7	151.1	4012.3 1260.1 1.0	ACRES)	ACRES)	0.0 (ACRES)	1311.2
TY: 35 LAPE	MINTER COVER CROP (TONS)	0 · 1	3016.4	50.5	12.7	12.5		114.6 (ACRES)	296.5 (ACRES)	0.0	6.000
* 000	FALL PLOUING ONLY (70NS) (10NS/ACRE)	1.0 1.0 1.2	3435.4	57.5	14.5	563.1	4569.6 1.2	AATER AREA JNLY	JTHER LAND JSE AREA	41SSING DATA	+620.7 1.0 -13.7
1	SPRING PLOUING 5 ONLY (70AS)	432.2	2974.5	9.6	12.5	12.3		0.0 (TONS) 4A'	ACRE)	10-1 (TONS) 41: 11-3 (ACRES) -07 (TONS/ACRE)	4067.7
FARGOOM	AEDUCE SOIL SPRIM LOSS TO T PLOUII AND EXISTING ONLY (TONS)		3016.4	50.5 5.5	12.7	197.7 5.0	3715.6	0000	39.5CACRES)	50.1 (TONS) 741.3 (ACRES) .07 (TONS/A	3766.7 3766.7 7.3
RIVER	EXISTING POT.REDUCE SOIL GROSS	4 38 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3016.4	50.5	12.7	494.4	4012.3.	0000	3.0 39.5 0.03	50.1 741.3	JAMARY TOTAL POTENTIAL OR 465.4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
BASIV: BLACK RIVER		1	CROPLAND 346 2	SAGE AND	CROPLAND 346 5	SAG 10	CROPLAND	VINEYARDS 443 DRCH.	STASSLAND AND PASTURE	ADODL AND	SJMMARY TOTAL POTENTIAL GROSS EROSION 4063.4 3766.7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

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LAKE ERIE MASTEUATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTAICT LAND MANAGEMENT ALTFRNATIVES : DEST MANAGEMENT PRACTICE SCENARIOS

	FF1571M6 531L LOSS 531L LOSS 54 FACTOR (AFRES)	320.0	0 C	0.0	0.0						
		1060.0	17249.5	30.0	1410.0	1			,	ROSS FROSION 11100-8 11520-6 13600-6 11752-5 4269-0 9242-5 29159-6	
* 10	~~~~~	0.0001	6.354.3	37.9	321.4	7636.6				9242.5	21.4
34 ST. CLAIR, MICHIGAY	MAXIMUM REDUCED *EDUCTION FILLAGE: 711La GE CMISEL PLOM 710VS) (100%)	9.909	2578.9	37.0 1.2	321.4	3543.6 .2	+0.0 (ACRES)	ACRES)	ACRESI	4269.0	63.7
FARGOWII	LIVIER COVER CROVE (TOVS)	1 P 1 B . R	7736.6	37.0	410.7	10003.1	0.0.	2620.0 (ACRES)	3990.0 (ACRES)	11752.5	0.0
	FALL PLOWING DNLY 1TDVS) (TONS/ACPE)	1259.7 1792.4 2108.7	8970.0	12.9	476.2	11597.8	JATER AREA ONLY	STHER LAND JSE AREA	415SING DATA	13600.0	-19.7
	REDUCE SOIL SPRING LOSS TO T PLONING AND ERISTING ONLY (TONS) (TONS) (TONS/ACRE)	1792.4	7624.5	36.5	464.7	9444.0 9858.1 11597.8	0.0 (TONS) JA 0.0 (ACRES) 4R 0.00 (TONS/ACRE)	CRES	.6.4 (TONS) 41' 00.0 (ACRES) .05 (TONS/ACRE)	11584.6	: :
			7736.6	37.0	410.7	1	0.0 (16)	25.9 (TONS) 1100.0(ACRES) .n2 (TONS/	115.4 (TONS) 2280.0 (ACRES) .05 (TONS/A	GROSS FROSION	3.5
K RIVER	GROSS FROSTON (TONS)	ACPLAND 1818.8	7736.6	37.0	*10.7	1		25.9 1100.0	115.4 2280.0	POTENTIAL G   11752.5	CT10N: 0.0
3151N: PLACK RIVER	LAMD USE	CROPLAND 546 1	240PLAND 343 2	CROPLAND SV6 3	STOPLAND 4	TOPLAND	VINEYARDS AVD ORCH.	314SSLAND AVD PASTURE	J000LAND	SUMMARY TOTAL POTENTIAL GROSS FROSION 11752-5 11176-8	PERCENT REDUCTION:

LAKE ERIE BASTEBATER MANAKEMENT STUDV Land Management alternatives: Best Manaliment Practice scenarios

34514: BLA	BLACK RIVER	FARGO.MI	. N.	COUNT	COUNTY: 62 ALL IN BASIN	IN BASIN			
	EXISTING POT-R GROSS EROSION A (TOMS) (	T.REDUCE SOIL SPRING LOSS TO T PLOBIN AND EXISTING GNLT (TONS) (TONS)	EDUCE SOIL SPRING OSS TO T PLONING NO EXISTING ONLY TONS) (TONS)	FALL PLOWING ONLY (TONS) (TONS)	COVER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL DLOW (TONS) TONS)	• •	ERISTING S31L LOSS > 7 FACTOR (ACRES) (TOUS/ACRE)
CROPLAND S46 1	35529.2	34970.2	35000.2	39852.4	35529.2	3.6970.2 35000.2 39852.4 35529.2 14645.0 31572-4 43067-8 6 8 8 8 9	31572.4	43067.8	320.0
SADPLAND S46 2	41723.2	41723.2	41106.9	47073.4	41723.2	16443.	36219.1	163568.6	00
CROPLAND S46 3	381.1	391.1	375.4	428.1	381.1	381.1	361.1	919.6	0 <b>0</b>
SADPLAND S46	1205.0	1205.0	1187.3	1356.3	1205.0	1028.2	1028.2	5086.3	0 0
CROPLAND S46 5	1230.7	1230.7	1212.3	1377.9	1250.7	1230.7	1230.7	19037.0	9 0
STG 16	2458.7	1445.1	2422.5	2761.9	2458.7	972.0	2157.3	306.4	936.4
CROPLAND		•	80953.3 81304.6	92860.4 82527.9 34760.3 .4 .4 .4 .4 .4 .4 .4 .4 .4	.1	34760.3	-[	231986.3	11
VINETARDS	41.2 266.9 • 15	41.2 (1 266.9 (4 .15 (1	(TONS) JATER (ACRES) 1REA (TONS/ACRE)	AATER Brea July	5268.7 (ACRES)	ACRES)			
SZASSLAND AVD PASTURE	208.5 10618.5	208.5 (TONS) 10262.6(ACRES)	ACRE)	JTHER LAND JSE AREA	30948.1 (ACRES)	ACRESI			
JOOP AND	431.1 15327.2		(TONS) 4 IS (ACRES) (TONS/ACRE)	4 ISSING DATA	9506.2 (ACRES)	ACRESI			
144A4Y 10T.	N.T.1AL 72.2		SS FROSION 85003.9	96985.1	86272.2	36683.7	75967.2	96985.1 86272.2 36683.7 75967.2 267705.1	
PERCENT REDUCTION:	UCT10N:	-2.2	1.5	-12.4	0.0	51.5	11.3		٠

LAKE ERIE WASTEWATER HAWAGERFUT STUDY LAVO WANAGEREUT ALTERWATIVES : PEST WAYASTHEUT PRACTICE SCENARIOS

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BASIN: PILL CAFER	.L CAFEK	AV CCA . M I		Proc	COUNTY: 32 SAME	32 SAVILACO MICHIGAN	2		
.440 USE	EXISTING POT.R GROSS EROSION 110NS)	23444	EDUCE 5011 SPRING 0SS TO 7 PLOMING ND EXISTIVE ONLY 10VS) (10VS) TOVS/ALPE (10VS)	44	301100	APT 100	AEDUCED TILLAGE: CHISFL BLD4 (TONS)	SOIL MENT. GROUP LAND AREA (ACRES)	ENISTING S) L LOSS > T FACTOR (ACRES) (TONS/ACRE)
SAS 1	ADPLAND 1454.8	14345	6. 1415.	1606.1	9*8*1	599.6	1284.9	1621.0	0.0
SAGPLAND 2	1910.0	1010.0	\$ <b>*</b> \$ # # \$	1130.4	1910.0	+22.1	904.5	3993.2	000
CROPLAND S46 3	5.0	5.0	6.	5.6 1.	5.0	5.0	5. E	5. P.S.	6.0
CROPLAND S96	10.2	10.2	16.0	11.4	10.8	9.1	9.1	39.5	0.0
223PLAND 546 5	9.6	6.4		11:1	9.9	9.9	. 66	197.7	
TABPLAND		2469.9		2432.9 2764.8 .5	2469.9 ••	1045.7	-1	6*066S	
VINEYARDS AVD ORCH.	000	0.00.0	(TONS) VA (ACRES) AR (TONS/ACRE)	VATER AREA ONLY	79.1 (	79.1 (ACRES)			
34ASSLAWD And pasture	237.2	5.4 (13VS) 237,2(ACRES) .n2 (10NS/	ACRES	JTHER LAND JSE AREA	593.1 (ACRES)	ACRES)			
430DLAND	15.9 6.52.6 6.03	•	5.9 (TONS) 2.6 (ACRES) -33 (TONS/ACRE)	4 ISSING DATA	9 ° 6 8	39.5 (ACRES)			
JAHARY TOT	I	088	2468.5	2492.4	2505.8	1973.2	2247.9	ERNSION 2468-5 2805-8 1973-2 2247-9 6808-2	
PERCENT REDUCTION:	UCT10M: 0.0	0.0	1.5	-11.4	0.0	51.2	10.9		

LAKE ERIE JASTEVATER MANAGENEMI STUDY U.S. ARMY CURPS JF ENJIMEERS, BUFFALJ DISTRICT Land Management alternativės: best management practice scenarios

	EXISTING SOIL .085 > 7 FACTOR (ACRES)	39.5	00	0.0	•••	116.6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					
COUNTY: 33 LAPEER, MICHIGAN	6MT.	11,26.1	11065.7	1976.9	3795.5	118.6	28782.7				37718.0	
	* - U	15152.3	6141.1	250.7	269.1	943.2	23369+5 9			-	34212.0 30119.0 10001.7 24411.5 6. 8. H.	1.8.1
	5 K	5747.6	2559.5	250.7	269.1	360.1	9187.0	ACRESI	IACRESI	IACRES)	10001.	66.A
	300	18810.5 1.6	8376.5	311.3	269.1	1178.4	-1	1858.2 (ACRES)	3558.3 (ACRES)	672.1 (ACRES)	30119.0	0.0
	44	21425.1	9539.9	354.5	306.4	1342.0	32965.9 1.1	JATER AREA JNLY	JTHER LAND JSE AREA	TISSING DATA	34212.0	-13.6
	IG ACRED	18499.5 17.6 1.6	8260.2	306.9	265.3	1162.0	26543.6	CRE)	ACRE)	15.4 (TONS) 48. 15.0 (ACRES) •08 (TONS/ACRE)	29709.5	1.4
AVOCA + HI	LDSS TO T PLOUINAND EXISTING ONLY (TONS) (TONS) (TONS)	18499.5	8376.5	311.3	269.1	434.9	27891.3	45.3 (TONS) 39.5 (ACRES) 1.15 (TONS/A	35.8 (TONS) 95.8 (TONS) 1818:7(ACRES)		640SS (ROS101 29045.4	3.6
CREEK	GROSS EROSION (TONS) (TONS/ACRE)	40PLAND 18810.5	8376.5	311.3	269.1	1176.4	13PLAND 28945.8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	95.8 1818.7 .05	495.4 6405.0	SJMMARY TOTAL POTENTIAL GROSS EROSION SJMMARY TOTAL 30119.0 29045.4	CTION: 0.0
BASIN: MÍLL CRÉÉK	AND USE	SY6 1	CROPLAND 843 2	CROPLAND 546	STOPLAND STS 5	CROPLAND S46 10	STOPLAND	VINEYARDS AND ORCH.	34ASSLAND 4 VD PASTURE	HOODEAND	SUMMARY TOTA	PERCENT REDUCTION:

LAKE ERIE WASTEWATER MANAGERENT STUDY LAND MANAGERENT ALTERNATIVES : PEST MANAGERENT PRACTICE SCEMAPICS

SISIN: MILL CREEK	T CREEK	4 VOC 6 - 4 J		אמכט	TY: 34 ST.	COUNTY: 34 ST. CLAIR. MICHIGEN	7 10		
LAND USE	EXISTING POT- GROSS EROSION (TONS) (TONS/ACRE)		REDUCE SOIL SPRING LOSS TO T PLOUING AND EVISTING ONLY (TOVS) (TONS/ACRE) (TONS/ACRE)		FALL WINTER 3NLY CR3P (1345) (1345) (1045) (1005/ACRF)	MAXIMUM MEDUCTION TILLAGE (TDVS)	PEDUCED CHISEL PLON (1795) (TONS/ACRE)	501L MGMT. 640JP LAVD 44E8 (4E4ES)	EXISTING \$214, 40\$8 5 T FACTOR (ACPES) (TOUS/ACRE)
S45 1	3426.7	2939.9	3577.0	3975.0	3426.7	1142.2	2681.3 2.1	1250.0	
CROPLAND 346 2	20081.7	24081.7	19796.7	23283.2	20041.7	6693.9	15716.1	34379.7	
STOPLAND 4	8.647 8.	749.3	738.4	868.A	749.3	586.4	586.1	2,00.0	• • •
CROPLAND S46 5	111.5	111.5	109.9	129.3	111.5	111.5	111.5	1950.0	6 C
1	9 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		24016.0	29254.3	24359.2	9534.0	19995.3	AA2.4 24016.0 29254.3 24359.2 9534.0 19995.3 43159.7 .6 .6 .2 .2 .3	I
JINEYARDS AND ORCH.	80 80 80 80 80 80 80 80 80 80 80 80 80 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.0 (TONS) AND OF CACRES	JATER BREA ONLY	190.0 CACAES)	ACRESI			
348SLAND AND PASTURE	46.3 2100.0	46.3 (10NS) 2140.6(ACRES) .02 (10NS/	ACRE)	JTHER LAND JSE AREA	4718.0 (ACRES)	ACRES)			
430014110	156.1		16-1 (T3NS) 41 10-0 (ACRES) •04 (T3NS/ACRE)	41SSING DATA	3490.0 (ACRES)	ACRES)		•	
3.43AR4 101	1111 19:5		26069.9	30624.9	26449.5	9430.9	28782.9	A0SS ENOSION 256059.9 30624.9 26449.5 4430.9 28782.8 50049.7 .5 .5 .5 .4 .5 .4 .5 .4 .5 .5 .4 .5 .5 .4 .5 .5 .5 .4 .5 .5 .5 .5 .4 .5 .5 .5 .5 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	0 6 0 0 0 0 0 0 0 0 0
PERCENT REDUCTION:	UCT I ON:	2.0	**.	-15.8	0.0	64.3	21.4		

LAKE ERIE VASTELATEN NAMAGENENT STUDY
LAND MANAGENENT ALTERNATIVES : BEST MANAGENENT PRACTICE SCENARICS

SASIN: MILI	HILL CREEK	AVOCAPHI	I H.	STATES		62 ALL IN BASIN			
LAND USE	EXISTING POPERSION (TONS)		SPRING PLOWING ONLY (TONS)	IEDUCE SOIL SPRING FALL  OSS TO T PLOWING PLOWING  IND EXISTING ONLY TONSY  TONSY  TONSY (TONS/ACRE)	300	E &	REDUCED TILLAGE: CMISEL PLOM (TONS)	SOLL MENT. GADJP LAVO AAEA (ACRES)	ER 1811NG \$51L LOSS > T FACTOR (ACRES) (10%\$/ACRE)
345 1	-1	22874.2 1.6	23339.6	27002.1	23671.9	7489.5	19113.5	14297.1	129.5
CROPLAND 546 2	29468.2	29468.2	29045.9	33953.5	29468.2	9675.5	23369.5	49538.6	0.0
STOPLAND 3	9.0	5.0	6.	5.6	5.0	5.0	6 . č	59.5	4 0 0 0
CROPLAND S46	1070.7	1670.7	1055.4	1234.5	1.070.7	846.3	846.3	1.996.	0.0
340PLAND 5	390.5	390.5	365.0	**6**	390.5	390.5	390.5 .1	5853.2	0.0
CROPLAND S46 10	1174.4	\$ * 4 B 4 \$ * 6 B	1162.0 9.8	1342.0	1178.4	360.1	943.2	118.5	118.6 9.9
CROPLAND	I	54243.5	54992.7	63984.7	55784.7	19766.9	2.67344 2.67344	1	
VINEYARDS 440 ORCM.	84.0 119.5	84.0 (1 119.5 (A	(TONS) JA (ACRES) 1R3 (TONS/ACRE)	JATER Irsa only	2127.3 (ACRES)	ACRESI			
STASSLAND AND PASTURE	147.6	147.6 (TONS) 4195.9(ACRES) .04 (TONS/	ACRE)	STHER LAND JSE AREA	8861.3 (ACRES)	ACRES)			
JOODL AND	667.4	667.4 (TONS) 11227.5 (ACRES) .06 (TONS/A	7.4 (TONS) 41: 17.5 (ACRES) .06 (TONS/ACRE)	MISSING DATA	4221.6 (ACRES)	ACRES)		•	
SJAMARY TOT		57718.3	58502.2	67914.2	59331.2	20584-4	47706.5		
ercent reduction:	UCTION: 6.0	2.3	**	-14.5	0.0	65.3	19.5		

LAKE EPIE WASTEWATER MANAREMENT STUDY LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCEVARIOS

3ASIN: BELLE RIVER	E RIVER	ME 4PH	ME 4PHIS + MI	<b>N</b> 060	COUNTY: 55 LAF	SS LAFFER, MICHIGAN			
SAND USE	ENISTING POT.P GROSS ENOSION A CTGNS)	TAPEDUCE SCIL SPRINC LOSS TO T PLOMIN AND EXISTING ONLY (TONS) (TONS)	EDUCE SCIL SPRING OSS TO T PLOWING ND EYISTING ONLY TONS) (TONS)	_	WINTER COVED CROP (TOUS)	F ~		SOIL MGMT. 343UP LAND 234 AREA (ACRES)	ERISTING S)IL LOSS > 7 FACTOR (ACRES) (TOWS/ACRE)
CHOPLAND S45	23717.0	40PLAND 23717.0 23600.2 23587.6	23387.6	27011.0	23717.0	7246.9	_	19105.3 13956.5	3.00
SAG 2	8556.4	8556.4 .7	9437.5	9.000	P556.4	2614.5	6892.7	13067.6	000
230PLAND 346 4	430.0	430.0	424.1	8.9.R	430.0	346.4	346.4	2490.8	0 0
343PLAND 846 5	293.2	293.2	2A9.1	9888	233.2	293.2	293.2	3835.1	• •
STOPLAND STG 10	9177.9	2174.5	1050.5	10452.7	9177.9	2804.4 5.1	7393.5 13.4	553.3	553.5 16.6
	42174.5	35054.3	41588.9	49032.2	42174.5	13305.4	34030.9		
VINEVARDS Avo orch.	106.2 197.7	196-2 (TONS) 197-7 (ACRES) 54 (TONS/A	CRE)	JATER SREA ONLY	2016.4 (ACRES)	(ACRES)			
324SSLAND AVD PASTURE	286.1 2846.6 .10	286.1 (TONS) 2846.6(ACRES) .10 (TONS)	ÁCRE)	JTHER LAND JSE AREA	5732.8 (ACRES)	(ACRES)			
JOODLAND	790.9		7.1 (ACRES) 4: -11 (TONS/ACRE)	4 ISSIVG DATA	711.7	711.7 (ACRES)			
	L POTENTIAL 44059.6 1.0		43464.5	50012-1	44059.6	14723.1	35784.1	SS EROSION 65464.5 50012.1 44059.6 14723.1 35784.1 44676.6 1.0 1.0 .3 .9 .9	1
SERCENT REDUCTION:	CTION: 0.0	16.4	1.4	-13.5	0.0	9.99	19.9		

LAKE ERIE WASTELATER MANAGERLYT STUDY U.S. ARMY CORPS OF LWGIMFERS. RUFFALO DISTRICT Land Management alternatives : best management practice scenarios

34SIN: BELLE ATVER	LE RIVER	MF 4PH I SOM	S+M	NOOD	TY: 34 ST.	CCUNTY: 34 ST. CLAIF, MICHIGAN	M 95		
AND USE	EXISTING POT GROSS EROSION (TONS) (TONS/ACRE)	EXISTING POT.AEDUCE SOL. SPRING GROSS LOSS TO T PLONIN EROSION AND EXISTING ONLY (TONS) (TONS) (TONS)	EDUCE SOL. SPRING OSS TO T PLOWING IND EXISTING ONLY TONS) (TONS)	FALL PLOWING ONLY (TOYS) (TONS/ACRE)	UIVTER CUVER CROP (TONS)		3-0	SOLL MEMT. SADUP LAND AREA (AGRES)	E41571NG S31L LOSS > 7 FACTOR (ACRES)
IROPLAND S45	AOPLAND 1147.6 1042.7 1130.9	1042.7	1130.5	1330.5	1147.6	362.5	0.040 2.050 1.050		0.09
CROPLAND S46	13130.6	13134.6	12944.2	15228.5	13134.6	4378.2	10279.2	25789.7	700
346 AMD	699.7	899.7	886.7	1343.2	199.7	704.1	704.1	3830.0	00
CROPLAND S46 5	73.3	73.3	72.3	85.0 • 1	73.3	73.3	13.3	1220.0	00
1 340PLAND		15150.3	15034.1	17687.2 15255.2	15255.2	5538.1	11954.7	31399.7	6 9 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
JINEYARDS And orch.	34.6 110.0	34.6 (TONS) 110.0 (ACRES) .31 (TONS/A	CRE)	JATEG AREA ONLY	160.6 (ACRES)	ACRES)			
STASSLAND AND PASTURE	51.7	51.7 (TUNS) 2040.0(AC4ES) .03 (TONS)	ACRF)	JTHER LAND JSE AREA	4270.0 (ACRES)	ACRES)			
1300F AND	115.7 3000.0	115.7 (TONS) 3000.0 (ACRES) .04 (TOVS/A	5.7 (TONS) 41 10.0 (ACRES) .04 (TONS/ACRE)	MISSING DATA	4250.0 (ACRES)	ACRES)			1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
3.1888 TO	SUMMARY TOTAL POTENTIAL GROSS EROSION 17254.6 17137.5	GROSS EROSIO:	3.7007.8	19969.4	17254.6	6407.6	13570.3	17.55 EROSION 17007.8 19969.4 17254.6 6407.6 13570.3 40799.7	
PERCENT REDUCTION:	SUCTION:		•:	-15.7	0.0	65.9	21.4		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARRY CORPS OF EVGIMEERS, RUFFALO DISTRICT Land Managewent alternatives : Rest Managiment Practice scevarios

345IN: BEL	BELLE AIVER	MEMPHIS.M	18.81	*000	COUNTY: 38 MACO	38 MATOMB. MICHIGAN			
.AND USE	EXISTING POT-RIGENOSS LEGENOSION ALCTONS)		i6	FALL PLONING JULY (TONS)ACRE)	WINTER COVER CQOS (TONS)	I V	111111111111111111111111111111111111111	SOIL MGMI. SROUP LAND AREA (ACRES)	
S45 1			24.5	27.7	24.0	6.4	13.4	50.3	80.0
CROPLAND SWG 2	207.0	207.0	204.3	236.0	204.3	41.4	114.5	210.0	 
SAS SAG 3	161.8	161.8	159.7	184.5 2.6	159.7	161.8	161.9	70.0	000
CROPLAND SWG 4	6.2	7.9	7.3	9 • 6 8 • 6	# ·	n «	n N	20.0	6.0
SYG 5	0 · E	e. e.	2.9	***	2.9	e. e.		10.3	0 C
T	I	404.0 1.2	-1398.7 1.2	398.7 460.6 1.2 1.4	398.7	215.4	297.1	340.0	
VINEYARDS And orch.	24.0 10.6 2.40	24.0 (TONS) 10.0 (ACRES 2.40 (TONS)	) ACRE)	JATER Brea only	90.0 (ACRES)	ACRESI			
33ASSLAND And Pasture	216.0	7.3 (TONS) 210.0(ACRES) .03 (TONS)	ACRE)	JTHER LAND JSE AREA	220.0 (AC9ES)	ACRES)			
JOOFFAND	70.0		2.8 (TONS) 4 FS 0.0 (ACRES) .04 (TONS/ACRE)	WISSING DATA	120.0 (ACRES)	ACRES)		•	•
1488RY 101	SJAWARY TOTAL POTENTIAL GROSSING		515.2		515.2	297.0	5 • • • • • • • • • • • • • • • • • • •	SS FROSION 515.2 596.9 515.2 297.0 394.3 750.0 .7 .7 .7 .9 .9 .9	
PERCENT REDUCTION:	UCT 1 OK: 0.0	0.0	1.2	-12.9	1.2	43.0	24.1		

LAKE ERIÉ MASTEJATER NANAGEYENT SIJOY Land Management alternativés : Rest Management pracfice scenarios

3451m: BELLE RIVER	E RIVER	H-VIHAR IR	- L	<b>80</b> 00	MICODALL P. WILL IN DAYIN	# C # O # I			
	GRISTING POT GROSS EROSION (TONS)	•	PLOWING PLOWING DNLY (TONS)	FALL PLOWING DNLY (TONS) ACRE)	MINTER COVER CROP (TONS)	FALL WINTER HARINUM PLOWING COVER REDUCTION ONLY CROP TILLAGE (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	REDUCED TICLAGE: CMISEL PLOW (TOMS)	531L MGMT. 543UP LAVD AZEA (ACRES)	E415T1M6 531L L355 > T FACTOR (4CRES)
CROPLAND S46	24666.6		24542.5	20369.2	24868.5	2.48.2	20016-3	24657.3 24542.5 28369.2 24886.5 7634.2 28016.3 14546.5 1.7 2.0	
240PLAND 546 2	21898.0	21896.0	21586.1	25209.3	21895.3	7034.1	17286.5	2.10065	
CAOPLAND SM6 3	161.8	161.8	159.7	184.5 2.6	159.7	161.8	161.3	C - 82	
SAGPLAND 4	1557.6	1337.6	1318.5	1541.9	1337.5	1054.9	1054.3	6346.9	***
SAGPLAND 5	369.5	369.5	364.3	422 s	569.5	369.5	369.5	5.045.0	
SAGPLAND SAS 10	9177.9	2174.5	9050.5	10452.7	9111.9	2804.4	1595.5	555.5	553.5 15.6
210PLAND 57833.6	57833.6	50608.7 57021.0 66179.9 57828.4 19058.9 46282.3 .8 .8 .9 .9 .9 .9 .9	57021.0	66179.9	57828.4	19058.9	*6282.3	65583.0	1 k
FINETARDS AND ORCH.	164.9 317.7 .52	164.9 (TONS) 327.7 (ACRES) 522 (TONS/A	CAE)	AATER AREA ONLU	2266.4 (ACRES)	ACRES)			
STASSLAND AND PASTURE	345.2 5096.6 101	345.2 (TONS) 5096.6(ACRES) .01 (TONS)	ACRE)	JTHER LAND JSE AREA	10222.6 (ACRES)	ACRES)			
GM W T G G C P	10107.1		19.4 (TGUS) 415 17.1 (ACRES) .ng (TGNS/ACRE)	FISSING DATA	5081.6 IACRES)	ACRES?			
5JMMARY TOTAL POTENTIAL 62963.8	L POTENTIAL 62963.8	GRUSS FROSID; 552+6.* 62103.9 71632.h 62958.3 2706.8 506 6 55. 6 7 8 8	62103.9	71632.h	62958.3	23.06.18	50689.7	85226.0	
PERCENT AEDUCTION:	C710N: 0.0	12.2	*:	-14.1	:	65.4	19.5		

LAKE ENIE MASTEJATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT Land management alternatives: best management practice scrvaries

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY COKPS OF ENGINEEMS, BUFFALO DISTRICT Land Management Alternatives: Best Management Practice scenarios

BASIN: CLINTON RIVER	TON RIVER	MT. CL	MT. CLEMENS.MI	COUN	TY: 34 ST.	COUNTY: 34 ST. CLAIM, MICHIGAN	6A &		
00000	EXISTING POT-R GROSS L EROSION A (TONS) (	"REDUCE SOIL SPRING LOSS TO T PLOWIN AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/A	EDUCE SOIL SPRING 0SS TO T PLOWING ND EXISTING ONLY 10NS (TONS)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	PLOUING COVER ONLY CRONS (TONS) (TONS)		TEDUCE) TILLAGE: CHISEL PLO4 (TOMS) (TOMS/ACRE)	SOLE MENT. SAOUP LAND A AREA (ACRES)	E41571MS 531L L055 > T FACTOR (ACRES) (TOVS/ACRE)
SAC 1		109.1 109.1 107.5 126.4 .5 .5 .5 .6	107.5	126.4	109.1	36.4	85.3	)	• •
SASPLAND 2	1467.8	1407.8	1387.4	1652.2	1407.8	\$69.3 • 1	1101.7	5149.3	99
STOPLAND 346 4	119.6	119.8	118.1	138.9	119.8	9. 8. 5.	93.9	510.0	 
SAS SAS	3.1	3.2	3.1	3.6		3.1		30 • 0	•••
CAOPLAND	1639.8	•	1616.1	1639.8 1616.1 1901.1 1639.8 .3 .3 .3	-1	602.6	1285.3	5004.9	•
JIVEYARDS 443 ORCH.	M 44 10 40 10 61 10 61 10 61	3.5 (TONS) 10.0 (ACRES)	CRES	AATER Area Jnly	0.0	0.0 (ACRES)			
32ASSLAND Avd pasture	4 8 9 9 9 9 9	5.0 (TONS) 450.0(ACRES) .01 (TONS/	ACRES	JYHER LAND JSE AREA	1190.0 (ACRES)	ACRESI			
400DL AND	480.0	9.2 (TONS) 480.0 (ACRES) 402 (TONS/A	9.2 (TONS) 41 0.0 (ACRES) 02 (TONS/ACRE)	ISSING DATA	200.6 (ACRES)	ACRES)			0 0 0 0 0 0 0 0
SJAMARY TOTAL	L POTENTIAL 1706.0	SJAMARY TOTAL POTENTIAL GROSS EROSION 1706.0 1706.0 2	1681.6	1975.0	1706.6	38.5	1339.7	JAMARY TOTAL POTENTIAL GROSS EROSION 1706.0 1706.0 1681.6 1975.0 1706.0 438.5 1339.7 7929.9	
PERCENT REDUCTION:	C110N: 0.0	٥. د	•:-	-15.8	ŋ•0	62.6	21.5		

LAKE ERIE JASTEMATER HANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT Land Hanagement Alternatives : Rest Management Practice scenarios

	EXISTING SJIL LOSS > 7 FACTOR (TOVS/ACRE)	0.0		0.0	6 D	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	SDIL MGMT. 640UP LAVD AREA (ACRES)		370.0	20.1	10.0	30.0	1780.0				
2	TILLAGE: CHISEL PLOW (TONS)	1367.1	69.5	2.9	ı, e	247.4	1586-3				94817.0
37 DAKLAND, MICHIGAN	MAXIMUM REDUCTION TILLAGE (TONS)	9.	30.4	2.0	ů.	108.6 3.6	741.7	ACRES)	ACRES)	A7.1 (TONS) MISSING DATA 229A83.0 (ACRES) 50.0 (ACRES) .20 (TONS/ACRE)	53359.8 53559.8 55.6
COUNTY: 37 DAKE	UINTER COVER CROP (TONS) (TONS/ACRF)	2200.7 1853.9 2.3 1.9	93.0	2.7	r, e	331.9	-I	190.0 (ACRES)	2160.0 (4CRES)	229883.0 (ACRES)	120083.7 .5
NACC	FALL PLOWING ONLY (TONS) (TONS/ACRE)	2200.7	1111.6	8 4 5 8	•••	398.2	2714.4	JATER SREA JALY	JHER LAND JSE AREA	MISSING DATA	170938.9 6 -16.5
WT. CLEMENS.WI	SPRING PLOWING 3 ONLY (TONS)	1800.6	91.3	2.7	ψ. φ.	325.A	-1 2220.9 1.6	ACRES	A CRE)	1.1 (TONS) 4I 0.0 (ACRES) .20 (TONS/ACRE)	11 P 2 7 9 . B
		1833.9 1800.6 1.9 1.9	9.5.0 8.	2.7	ů.	150.0 5.0	2080.1	8.6 (TONS) 40.0 (ACRES -22 (TONS/	278.4 (TONS) 2990.0(ACRES) .09 (TONS/	- 6	1121
FOV PIVER	EXISTING POT- SHOSS ERCSION (TONS)	1833.9	93.0 8.	2.7	10 o	331.9	7	9.0 40.0 2.2	2990.0	187.1 950.0 .20	1200A3.7 1200A3.7 CTION: 0.0
SASIN: CLINTON PIVER	S C C C C C C C C C C C C C C C C C C C	CADPLAND S46 1	CROPLAND S45	CROPLAND S46	CROPLAND S46	CROPLAND S4G 10	337PLAND 2262.0	VINEVARDS AVJ DRCH.	STASSLAND	4000LAND	SJMMAAY TOTAL POTENTIAL GI

LAKE ERJE WASTEWATER NAMAGEMENT STUDY U.S. ARMY COKPS OF ENGINEERS. BUFFALD DISTRICT LAND MANAGEMENT ALTERABILYES: BEST MANAGEMENT PRACTICE SCENARIOS

345IN: CLIN	CLINTON AIVER	.T.	MI. CLEMENS.WI	COUNTY:	r.	MACOMB. MICHIGAN			
	EXISTING PO- GROSS EROSION (TONS) (TONS/ACRE)	EXISTING POT.REDUCE SOIL SPRINGROSS TO T PLONJ EROSION AND EXISTING ONLY (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	REDUCE SOIL SPRING LOSS TO T PLONING AND EXISTING ONLY (TONS) (TONS) (TONS/ACRE)	FALL PLOWING ONLY (70NS) (TONS/ACRE)	300	I &	_	A40	(
CAOPLAND 546 1	34227.6	34144.8	53771.2	39019.5	33771.2			6.64148	2020.0
CROPLAND 545 2	27388.9	27388.9	21023.7	31223.3	27023.7	5417.8	15155.2	39379.5	000
CROPLAND S46 3	1430.3	4436.3	4371.2	5050•6 1•5	4371.2	4 4 30 • 3	4430 s 1 s 4	3280.0	000
CAOPLAND 843	6935.4	6935.4	6842.9	7906.3	6842.9	3837.6	3837.5	15169.3	00
CROPLAND SMG 5	1093.5	1093.5	1078.9	1246.5	1078.9	1093.5	1093.5	2540.0	e e
S43 B	9.4	47.0	• • •	53.6 .0	4.9	26.0	25.3	110.8	0.0
CROPLAND S4G 9	575.2 6.	575.2	567.4 2.5	655.8 6	567.6 5.	5.75.2 5.	575.2 5.5	1180.0	0.0
230PLAND S46 10	926.9	170.0	914.5	1056.6	914.5	185.4 4.6	512.3	0 + 0 +	40.0
STOPLAND	75624.8	74785.1	74616.4	96212.2	74616.4	22471.3	44570.0	75449.4	***************************************
VINEYARDS AVD ORCH.	763.3 1680.0 .45	763.3 1680.0	(TONS) JAT (ACRES) ARE (TONS/ACRE)	JATER Area only	1340.0 (ACRES)	ACRESI			
34ASSLAND And Pasture	1162.2 35379.7	1162.2 (TOVS) 35379.7(ACRES) .03 (TONS)	ACRE)	JTHER LAND JSE AREA	56009.4 (ACRES)	ACRES)			
4309LAND	538.1 12719.9	538.1 (1734S) 12719.9 (ACRES) .04 (TGMS/A	538.1 (1734S) 419 (719.9 (ACRES) .04 (TGMS/ACRE)			_			
10 TOTA	SJ44ARY TOTAL POTENTIAL GRO 95791.9	GROSS EROSION 94761.8	SS EROSION 94554.9 104779.6 94761.8 94554.9 104779.6	•	00 6.45546 9.	30597.9	57695.5		
FECENT REDUCTION	0.0	1.1	B • 3	-13.6	1.3	68.1	33.9		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT Land Management alternatives: best management practice scenarios

	CLINTON RIVER	•							
USE	EXISTING POT GROSS EROSION (TONS)	EXISTING POT-REDUCE SOIL SPRIMGEOSS to T PLOWING EROSION AND EXISTING ONLY (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	SPRING PLOWING IG ONLY (TONS)	F 0	70000	ERFOU	REDUCED TILLAGE: CMISEL >LOW (TONS)	CAVO	E41S7146 531L LOSS 5 7 F4CTOR (ACRES) (TOMS/ACRES)
CAOPLAND S46 1	44111.2	44904.2	-1	50374.2	45654.8	9.0966	26R36.1 1.3	21141.5	2494.4
CROPLAND S45	30486.5	30486.5	39078.9	34742-1	30121.3	6454.4	17523.5	44309.5	00
CROPLAND S46 3	4450.3	4430.3	4371.2	5050.6	4371.2	4430.3	4430.U	3280.0	• • •
C439LAND S45	7261.0	7261.0	7164.5	8279.1	7168.6	4099.1	4899.1 .2	16629.0	6 0 0 0
CROPLAND S46 5	1194.5	1194.5	1178.7	1361.5	1179.9	1194.5	1194.5	3696.9	0.0
CROPLAND S46 A	47.0	47.0	9.9	33.6 5.5	• •	26.0	26.0	110.0	0.0
CROPLAND S43	575.2 .5	575.2 .5	567.6	655.3 6.5 6.6	567.6	575.2	575°2	1180.0	D. E.
CROPLAND S4G 10	4425.8	1031.7	4363.4	5051.8 18.9	4413.4 16.5	1261.7	3311.5	267.7	~
1	92531.5	-11- 89030.4	91288.1	105618.5	91523.2	-1	58095.5	95214.6	
VINEYARDS Ayd orch.	920.9 2085.8	920.9 2045.8	(TONS) JA: (ACPES) 1RE (TONS/ACRE)	JATER 1RE4 ONLY	2004.4 (ACRES)	ACRESI			
318SLAND 840 PASTURE	1527.9 40757.0	1527.9 (10'S) 40757.0(ACPES) .04 (TONS/	ACREJ	JTHER LAND JSE AREA	61600.1 (ACRES)	ACRES)			
JOODL AND	927.1 17223.9			MISSING DATA	270853.2 (ACRES)	ACRESI			1
14444 T T TAL	N711AL 96.2		259784.0	299110.5	260429.2	85934.6	168696.5	125134.5	
»ERCENT REDUCTION:	CT TON:	3.7	1.5	-13.6	1:1	67.4	35.3		

LAKE ERIE WASTEWATER MAMAGEMENT STUDY
LAND MAMAGEMENT ALTERNATIVES : BEST MAMAGEMENT PRACTICE SCEWARIOS

BASIN: SASMABAW CREEK	CAND USE ENISTING GROSS ENOSS ENOSION (1008)	INCOPLAND	VINEYARDS AND ORCH.	STASSLAND And Pasture	4338LAMD B.O 0.0 (TONS) 41SSING DATA 13979.9 (ACRES) 0.0 0.0 (ACRES) 0.00 0.00 (TONS/ACRE)	SUMMARY TOTAL POTENTIAL GROSS ENGION 1427-4 1427-4 1427-4 1-2-1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	FRCENT REDUCTION:
CAEEK	ROSSION TONS)		000	60.0	0 0 0 0 0 0 0	TENTIAL 1427.4	 
DRAYT	EMISTING POT-REDUCE SOIL SPRING GROSS 10 T PLOWING EROSION AND EXISTING ONLY (TONS) (TONS) (TONS)	0.0	0.0 (TCNS) 0.0 (ACRES 0.00 (TONS)	6.1 (TDMS) 60.0(ACRES) .10 (TOMS/	0.0 (TONS) 0.0 (ACRES 0.0 (TONS)	680SS EROS106 1427.4	0.0
DRATTON PLAINS+11	SPRING PLOWING G GMLY (TONS) (TONS)	0.0	ACRES	ACRED	0.0 (TONS) 41 0.0 (ACRES) 0.00 (TONS/ACRE)	1427.4	0.0
COUNT	SS TO T PLOWING PLOWING COVER REDUCTION TILLAGE:  4D EXISTING OMLY CROP TILLAGE CHISEL PLOM  10NS) (TONS) (TONS) (TONS) (TONS) (TONS)  10NS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	0.0	JATER Area only	JTHER LAND JSE AREA	41SSING DATA	1427.4	0.0
Y: 57 DAKL	LINTER COVER CROP (TONS) (TONS/ACRF)	0.0	0.0	10.0 (ACRES)	13979.9 (ACRES)	1427.4	0.0
COUNTY: 57 DAKLAND, MICHIGAN	AAXIVUM REDUCTION TILLAGE (TONS) (TD4S/ACRE)	0.0	B.O (ACRES)	ACRESI	ACRESI	1427.4	0.0
NI VIT IN BASIN	REDUCE) SJIL 46MT. TILLAGE: SAOUP LAND CHISEL PLOM AREA (TONS) (ACRES) (TONS) (ACRES)	0.0				1427.4	0.0
ASIN	AND USE EXISTING POTENCE SOIL SPRING FALL JINTER MAXIMUM REDUCE) SOIL 16MT. GROSS LOSS TO T PLONING PLONING COVER REDUCTION TILLAGE: SROUP LAND EROSION AND EXISTING GMLY ONLY CROP TILLAGE CHISEL PLOW AREA TIONS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE)					14039.9	
	E41511M6 531C C355 > 7 FACTOR (ACRES) (TOMS/ACRE)				0 0 0 0 0 0 0 0 0		

LAKE ERIE WASTEJATER MANAGEMENT STUDY Land wanabement alternatives : Mest Management practice scenariss

SASIN: ROUGE RIVER	UGE RIVER	. UE UE.	U. JEFFERSON PRIDGE.MI		COUNTY: 37 CAKLAND, MICHIGAN	AND. MICHIGA	. 2		
380 086	EXISTING PO GROSS EROSION (TONS)	EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO 7 PLOILING EROSION AND EXISTING OULY (TONS) (TONS) (TONS/ACRE) (TONS/	DUCE SOIL SPRING SS 12 T PLD-LING ID EXISTING ONLY ONS! (10%S) ONS/ACRE) (10%S/ACRE)	44	300	7 7	~ - U	5134 46PT. 5134 LA4D 4154 (AC4ES)	511 L LOSS 5)1L LOSS 5 T C C T 7R (ACRES)
TADPLAND S4S 1	212.7	130PLAN0 212.7 212.7 20.9 545 1 2.1 2.1 2.1	208.9	255.3. 255.3. 2.6	-1		-	159.5 100.0	
CROPLAND S46 2	16.8	16.H .f	16.5	20.1	16.4 .e.	υ. υ.	12.5	0.08	000
CROPLAND S43 10	108.6	50.00 50.00	106.6	130.3	108.6 10.9	35.5	80.9 1.0	10.0	0.01
STOPLAND	11111111	279.5 2.0	331.9	-I	358.1	110.6	-f	140.0	
JINEYARDS And orch.	19.6	79.6 (1) 100.0 (1) 100.0 (1) 100.0 (1) 100.0 (1)	(TONS) (A (ACRES) ARI (TONS/ACRE)	JATER Area only	50.0 (4CRES)	ACRESI			
344SSLAND And Pasture	317.1 E 3010.0	317.1 (TONS) 3010.0(ACRES) .11 (TONS)	ACRE)	JTHER LAVO JSE AREA	3020.0 (ACRES)	ACRES)			
JOOLAND	134.4 780.0	134.4 (1) 780.0 (4)	14.4 (TOMS) 41: 10.0 (ACRES) •17 (TOMS/ACRE)	TISSING DATA	94850.7 (ACRES)	ACRES)			
JAMARY TOT	TAL POTENTIAL 21326.8	SJAMARY TOTAL POTENTIAL GROSS 21174.7 229A5.5 21326.8 15744.8 19214.3 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	21174.7	22985.5	21326.8	15744.8	19214.5	7.00666	
PEACENT REDUCTION	DUCTION: 0.0	6.1	٠.	-7.8	0.0	26.2	19.3		

LAKE ERIE WASTEMATER MAMAGEMENT STUDY Land Mamagement alternatives: Best Management Practice scenarics

620UP LAMD S)1L LOSS AREA > T FACTOR (ACRES) (1004)ACRES	•	1650.0	730.0	1710.0	156.0	# C	7.40.0			•
3 ~ !	35	•	~ .	1.7	-		1		-	5 <b>6 2</b>
TEDUCE) TILLAGE: CMISEL PLOM (TONS)	•	140.1	2282.1	295.7	35.5	122.4	11259.3		1 1 1 1	13749.3
AAKIAUM REDUCTION TILLAGE (TONS)	2627.4	5.48.8 6.4	2282.1	295.7	35.3	4.5.4 4.5	5820.4 5820.4 (ACRES)	(ACRES)	155.7 (TONS) 41SSING DATA 2160.0 (ACRES) 1090.0 (ACRES) .14 (TONS/ACRE)	7367.1
JIVIER COVER CROP (TONS)	13022.9	2649.0	3.0	5+3-7 5-	4.4	225.0	10698.6 2.4 150.6 (ACRES)	5573.0 (ACRES)	2160.0 (ACRES)	22477.8
FALL PLOWING ONLY (TONS/ACRE)	15193.3	3090.5	2594.2	634.3	40.1	262.5	Z1814.9 2.8 4ATER AREA ONLY	JIHER LAND JSE AREA	FISSING DATA	26134.4
SPAING PLOAING G ONLY (TONS)	13137.1	2672.3	2243.1	548.4	34.7	227.0	18962.6 2.4 (10NS) 4A (ACRES) AR (TONS/ACRE)	ACRE)	(TONS) 41.	22670.3 1.6
REDUCE SOIL LOSS TO T AND EXISTIN (TONS)	10586.2	2738-8	2190.0	556.0	35.3	20.0	15902.3 2.1 39.5 50.0	263.1 (TONS) 3580.0(ACRES) .67 (TOVS/		
EXISTING POTA GROSS ERGSION (TONS)		2718.8	2282.1	958.0	35.3	230.9	J. STOPLAND 19190.7 STOPLAND 19190.7 AVD ORCH 50.0	263.1 3580.0	155.7	NTIAL 55.2 1.6
AND USE EXISTING GROSS EROSION (TONS)	STOPLAND	CROPLAND 346	CROPLAND SR6	34GPLAND 346	CROPLAND S46	346 10	SROPLAND VINEYARDS AND ORCH-	STASSLAND AND PASTURE	JODELAND	SJMMARY TOTAL POTEINE 230

LAKE CRIE HASTEMATER PANAGEMFYT STUDY U.S. ARMY CORDS OF ENGINEERS. RUFFALO DISTRICT Land Management alternatives : rest management practicf scenarios

	E4151146 531 L35 5 T FACTOR 4 CARES (1045/ACRE)										
	SJIL 464F. GROUP LAND A4E4 (AC4ES)	5.500.5	1.01pr	2530.0	216.0				JODLAND 304.0 50A.0 (10VS) 4ISSING DATA 107175.7 (ACRES) 5860.0 58R0.0 (ACRES) .05 (10NS/ACRE) .05	149955.5	
	ACOUCE)	6.456g	5831.9	615.0	142.9	15440.5				59547.2	45.5
F. HICHIGAN	LINTER MAXIMUM REDUCE) COVER REDUCTION TILLAGE CROP TILLAGE CHISCL PLOM (TONS) (TONS) (TONS)	5635.2 16684.6 18548.8 16871.0 3169.1 8954.3 2.5 7.4 8.3 7.5 1.4 4.0	2087.2	615.0	142.9	6014.2	400.0 (ACRES)	(ACRES)	(ACRES)	25925.4	16.2
COUNTY: 41 LAYAF. MICHIGAN	WINTER COVER CROP (TOVS) (TONS/ACPE)	16471.0	11111.0	1171.8	142.9	29296-7	0.00+	35599.5 (ACRES)	107175.7 (ACRES)	108953.4	0.0
	FALL PLOWING ONLY (TONS) (TONS/ACRE)	18548.8	12216.0	1248.3	157-1	32210.2	JATER ARSA ONLY	JIHER LAND JSE AREA	WISSING DATA	119320.A	-9.5
H. JEFFERSON HAIDGE.MI	DUCE SOIL SPRING SS TO T PLOWING D EXISTING CNLT ONE (TONS) ONE (TONS)	1664.6	10988.3	115A.9	141.3	17660.0 28973.1 1.4 2.2	) ACRF)	ACRE)	10.0 (10NS) 4. 10.0 (ACRES) .05 (TONS/ACRE)	107779.7	1.1
. Cantings	AEDUCE SOIL SPRING LOSS TO T PLOWIN AND EXISTING ONLY (TONS)	5635.2	10710.1	1171.A	142.9	17660.0	182.4 (TONS) 250.0 (ACRES .79 (TONS)	771.1 (10NS) 22779.8(ACRES) .03 (10NS)	504.0 (TONS) 5880.0 (ACRES) .05 (TONS/A	64055 F40513V 67445-6	38.1
LAND MANABERALNI BLICANNIIGES . CL.	EXISTING POT-REI GROSS LO EROSION AN	16871.0	11111.0	1171.8	142.9	CROPLAND 29296.7	182.4 230.0	771.1 22779.8	3886 0.0880 0.08	SJAMARY TOTAL POTENTIAL 108933.4	•
SHOW THE SHOP		1.0PLAND	CAOPLAND S	CAOPLAND	CROPLAND S45	CROPLAND	VIVEYARDS AND ORCH.	STASSLAND AND PASTURE	JOOTAND	3,44A2Y TOT	SERCENT REDUCTION:

LAKE ERIE WASTEWATER HAMAGEMENT STULY U.S. ARMY CORPS OF ENGINEERS, PUFFALO DISTATOT LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

Stain noor nith		:							
LAND USE	EXISTING POT. GROSS EROSTON (TONS) (TONS)	• "	SPRING PLOWING ONLY (TONS)	E	30000	E &	& F U	. LA45	
STOPLAND STS 1	**S	16228.1	30030.5	33997.4	30106.6	5666.2	16095-1	0.0000	2950.0
SROPLAND	13846.6	13445.6	13677.6	15326.7	13776.8	2627.1	7285.7	9789.9	2146.8
CROPLAND \$46 3	2282.1	2196.0	2243.1	2594.2	2223.6	2262.1	2262-1	730.0	736.0
SAGPLAND 4	1129.8	1729.6	1707.3	1922.6	1115.5	910.7	910.7	4240.5	• •
STOPLAND STS	178.2	178.2	176.9	197.2	177.3	178.2	178.2	360.0	00
CROPLAND 346 10	339.5	3.5	333.6	392.8 19.6	333.6	6 G	10.2	20.0	20.0 17.0
CROPLAND	CROPLAND 48625.5	-f	-1	54430.9	48333.4	11945.2	-1	20769.9	I
VINEYARDS 440 ORCH.	3000 000 000 000	301.5	(TONS) JA (ACRES) JR (TONS/ACRE)	JATER JREA ONLY	600.0 (ACRES)	ACRES)			
SAASSLAND And pasture	1351.3 29369.8 005	1351.3 (TONS) 29369.8(ACRES) .05 (TONS)	ACRES	JTHER LAND JSE ARFA	44189.5 (ACRES)	ACRESI			
JODE AND	594.1 7750.0		(TONS) 41 (ACRES) (TONS/ACRE)	ISSING DATA	204186.4 (ACRES)	ACRESI			•
J4447 T071	NT1AL 30.5		227674.6	### ##################################	227821.8	63923.5	131531.3	262156.1	
SERCENT REDUCTION:	UCTION:	29.3	1.3	-11.	1.0	12.2	42.5		

LAKE ERIF WASTEWATER MANAFEFFUT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTATOT LAVO MANAGEMENT ALTERNATIVES : PEST FANAGEMENT DRACTICE SCENARIOS

	Ex 151146 531L LOSS 5 7 FACTOR (ACRES) (1045/ACRE)	0.0	0.0	00	]			•		
	SOIL MENT. SAOUP LANT AREA (ACRES)	548.1 355.9	533.7	0.80	280.1 767.1 978.5			•	SJMMARY TOTAL POTENTIAL GROSS EROSION 1008-6 1008-6 997-4 1142-5 1008-6 305-4 829-9 1245-5 -8 8 8 -2 8 7	
	& F ()		292.4	16.2	767.1				B29.9	17.7
S. PETROPOLITAN PAMY. TI COUNTY: 35 INCHAM, MICHIGAN	* ~	192.6	71.3	16.2		O.C (ACRES)	ACRESI	ACRES)	305.4	69.1
TY: 35 INSH	WINTER COVER CROP (TONS)	1.9	246.7	19.7	933.0		89.0 (ACRES)	89.0 (ACRES)	1008.6	0.0
WW. WE COUN	FALL PLO41VG DALY (TONS) (TONS/ACRE)	755.5	279.6	22.3	1057.4	AATER 1rea July	JTHER LAND JSE AREA	MISSING DATA	1142.5	-13.3
ROPOLITAN P	REDUCE SOIL SPRING LOSS 10 T PLOLING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	659.2	243.9	19.5	922.4	2	ACRE	1.6 (TONS) 415 9.0 (ACRES) .02 (TONS/ACRE)	997.4	1:1
13d · S	EXISTING POT-REDUCE SOIL SPRING FROSS 10 T PLOLIN- FROSIN AVD EYISTING ONLY FROSS (TONS) (TONS) TONS/AGRE) (TONS/AGRE) (TONS/	656.6 659.2	246.7	19.7	0.86.0	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/A	1.9 (TONS) 89.0(ACRES) .02 (TONS)	1.6 (TONS) 49.0 (ACRES) .02 (TONS/A	1008.6	0.0
N RIVER	EXISTING POT- GROSS EROSION (TONS)	6.66.6	246.7	19.7	933.0	0.00	1.9 89.0 .02	1.6 89.0 .02	SJMMARY TOTAL POTENTIAL GROSS EACSION 1008.6 1008.6 .00%.	CTION: 0.0
345IN: HURON RIVER	TAND USE	S46 1	CROPLAND 346 2	CROPLAND S46	CROPLAND	FINEYARDS	32ASSLAND AND PASTURE	JOOOLAND	SJHMRRY TOTA	SERCENT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARNY CORPS OF ENGINEERS. BUFFALO DISTRICT Land management alternatives : Gest Ranagement Practice Scenarius

SASIE: MURGE RIVER	10M RIVER	S. AE	TROPOL 1 TAN	S. METROPOLITAN PREV MI COUNTY: 36 LIVINGSTON. MICHIGAN	TY: 36 LIV	INGSTON: MICH	16 A N		
350 005	EXISTING POT GR03S EROSTON (TONS) ATONS/ACRE)	EXISTING POT-MEDUCE SOIL SPRING GROSS LOSS TO T PLOWING GROSSIN AND EXISTING ONLY TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	SPRING PLOWING S ONLY (TONS)	FALL PLOWING ONLY (TONS)	JINTER COVER CROP (TONS)	MAKINUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	MAXIMUM REDUCED REDUCTION TILLAGE: TILLAGE CHISEL P.D.J. (TONS.) (TONS.ACRE.) (TONS.ACRE.)	SOIL MEMT. 640UP LAVD A4EA (4CRES)	EKISTING SDIL LOSS > T FACTOR (ACRES) (TONS/ACRE)
SAG 1	17422.2	17422.2	17228.7	19745.2	17422-2	\$035.1	14524.9	17422.2 17422.2 17226.7 19745.2 17422.2 5035.1 14324.3 3289.3	• 0
STOPLAND 2	420.7	420.7	416.0	476.1	420.7	121.5	345.9	1230.0	
S46 4	156.8	156.8	155.4	177.7	156.6	128.9	125.3	538.0	90
CROPLAND S46 5	212.8	212.8	210.5	241.2	212.6	212.8	212.9	2900.0	• •
346 10	3506.0 17.5	9+0-0	3467.1	1973.5	3506.0	1012.9	2882.7	200.0	200.0
1	11111111	i	21477.3	19152.5 21477.3 24614.3 1.4 1.5 1.9	_	21718.5 6509.2 1.6 .5	17895.2	17895.2 13249.9 1.4	
VINEYARDS And Greh.	207.0	79.4 (TONS) 149.0 (ACRES) .57 (TONS/AC	38.5	JATER Area only	2340.0 (ACRES)	ACRES)			
31ASSLAND And Pasture	914-8 93-919-9	914.8 (TONS) 13019.9(ACRES) .07 (TONS/	ACRES	JTHER LAND JSE AREA	22625.6 (ACRES)	ACRESI			
OODLAND	639.7 5850.0	639.7 (70NS) 5850.0 (ACRES) .11 (T3NS/A	39.7 (70NS) + 50.0 (ACRES) .11 (T3NS/ACRE)	41SSING DATA	56625.0 (ACNES)	IACHESD			
MARY TOT	AL POTENTIAL 64694.0	SJUMANY TOTAL POTENTIAL GROSS ENGSION 5-14MANY TOTAL POTENTIAL GROSS ENGSION FOR ENGSIO	64029.4	12672.7	64694.0	22788.1	54159.7	SJ4MARY TOTAL POTENTIAL GROSS EROSION SJ4MARY TOTAL POTENTIAL GROSS EROSION 64694.0 57623.9 64029.4 72672.7 64694.0 22788.1 54159.7 89884.8	
PERCENT REDUCTION:	0.0	10.9	1.1	-12.3	7	64.6	16.3		

LAKE ERIE MANTGMATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENSINGERS. BUFFALO DISTAICT LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

340 USE	SROSS EROSION (TONS) (TONS/ACRE)	NG POT-BEDUCE 5.11 SPRING LOSS IN T PLOJINY NA MON EVISTIN'S ONLY (TONS) (TONS)	PEDUCE 5.11 SPRING 10SS TO T PLD-BING AND EXISTING DOLY TOWS (TOWS) (TOWS)		LIVIER COVER CROP (TONS) (TONS/ACR!)	4AKIMUM 4EDUCTION TILLAGE (TONS)	######################################	SDIL MGMT. 320JD LAND AREA (ACRES)	FRISTING 5) IL LOSS 5 T FACTOR (ACRES) (TOUS/ACRE)
140PLAND S45 1	1327.8	127.8 1327.8 1303.7 1.0 1.0 1.0	1303.7		1327.6	9.484	W + C + C + C + C + C + C + C + C + C +	1593.4 1527.6 454.6 983.3 1310.3	0.0
SAG 2	19.6	19.6	19.2	23.5	19.6	6.4	10.5	0.06	000
S46 5	v	î. 0	v. 0	٠.:	. ·	č.	in 0	10.0	0 • 0 0 • 0
340PLAND S4G 10	110.6	300 500 000	108.6	13.3	110.6	35.2 3.6	82.5 9.5	10.9	10.0
CAOPLAND 14	1458.5	1397.9	1432.0 1750.3 1.0 1.0	i	1458.5	477.7	1087.4	1458.5 477.7 1087.4 1420.0 1.0 .3 .9	
JEVEYARDS Avd Orch.	30.1 50.0 .60	30-1 (10NS) 50-0 (ACRES) -6C (TONS/AL	, E	JATER AREA ONLY )	240.0 (ACRES)	ACRES)			
SRASSLAND AVJ PASTURE	278.3 4220.0	278.3 (TONS) +220.0(ACRES) .07 (TONS/	ACR.F.)	JTHER LAND JSE AREA	3220.0 (ACRES)	ACRES)			
ONE TOOOF		191.0 (TONS) 1220.0 (ACRES) .16 (TONS/A	91.0 (TONS) 20.0 (ACRES) -16 (TONS/ACRE)	MISSING DATA	94098.5 (ACRES)	ACRES)			•
SJAMARY TOTAL POTE	POTENTIAL 28617.2	GROSS EROSION 27731.5	28229.9	32982.2	24617.2	14281.6	23193.1	INTIAL GROSS ERUSION 17.2 2773.5 28229.9 32882.2 29617.2 14281.6 23193.1 100998.5 17.2 2773.5 .3 .3 .3	
PERCENT REDUCTION:	0.0	3.1	:	-14.9	0.0	50.1	13.0		

LAKE ERIË NASTENATER RANAEEMENT STUDY Land hanagement alternatives: Best vanagement practice scenarios

HURON RIVER	ENERS DESS	S. NET	LAND MANAGEMENT BLICKENSTON S. NETROPOLITAN PALT	S. NETROPOLITAN PAUV NI COUNTY: 40 . ASMTENAM. MICHIGAN	T: 40 BASHT	ENAM« MICHIG	;	1	54151186
EXI	6 901	EDUCE SOIL	SPRING	9	4 INTER COVER	ARENCTION	REDUCED TILLAGE: CHISEL PLDA	Soli memi. Stoup Lavo Atea	5311 LOSS > 7 FACTOR
EROS I	ž.,	AND EXISTING DULY (TONS)	(TONS)	JMLY (TONS) (TONS/ACRE)	. <b></b>	(TONS/ACRE)	(TONS)	(ACRES)	(ACRES) (1085/ACRE) ]
믭	ACRE	(TONS/ACRE) (TONS/ACRE)	TONS/ACRE A TONS/ACRE A	233027.1	~	43297	108629.2		12299.9
	284993.7	161966.7	3.6	4.2	3.6				
	3664548	16645.8	16361.5	18922.2	16219.0	3272.3	8820.3	15349.9	9
	1:1	1.1		9 (	4 1 1 3 1	3667.5	3667.5	1166.0	1160.0
	3667.5	3480.0	3604.8	4169.0 3.6	3.1	3.2	2.2		<b>7.</b> •
	7 0 100	0.5800	5032.5	3506.9	3885.9	1654.8	1634.3	9559.3	, , , ,
	F 4		F.	•	?	:	 6	6,629.3	•••
	6.088	880.5	865.4	1000.4	857.9 1.	186.5			•
	=	:	:		25.144.1	5072.9	13674.9	1510.0	1510.0
	25805.7	5810.0	25364.6	19.4	16.7	e • n	<b>6</b>		[
				7		6.20043	137507.7	63126.3	
÷	255078.2		250718.1	289960.H 3.2	248551.9	9.	10		
	802.9 530.0 1.51	430.2 530.0 18.	(TOVS) 4 (ACRES) 4 (TONS/ACRE)	JATER AREA ONLY	3.550.U (ACRES)	ACRESI			
	3543.7 36329.6	3543.7 (TONS) 36329.6(ACRES) .10 (TONS)	ACRE)	JTHER LAND JSE AREA	72058.7 (ACRES)	(ACRES)			,
	4161.1 21669.8		(TGNS) (ACRES) (TONS/ACRE)	4161.1 (TGMS) 41551NG DATA 22519.7 (ACRES) 21669.8 (ACRES) 19 (TOWS/ACRE)	22519.7 (ACRES)	(ACRES) ]	: : : : : :	[	
74		70	294600.9	343604.4	296389.6	72953.7	167964.0	110778.0	
3	>ERCENT REDUCTION: 0.0	16.4	1.1	-13.2	2.	96.0	•		

LAKE ERIE HASTEMATER HAVAGEMENT STUDY U.S. ARMY CORPS IF ENSINEERS. BUFFALD DISTAICT Land Hanagement Alternatives : 9 fst management practice scruarios

S. METROPOLITAN PREY. \*\* COUNTY: \*1 MAYNE. MICHIGAN

345IN: HURON RIVER

\$31L LOSS 531L LOSS 5 T FACTOR (ACRES) (TONS/ACRES)	0.0	3.2	0 ° 0	e e e				8 8 9 9 8 9 9		
SOIL MGMT. Stous LAND AREA (ACTES)	1150.0	4039.9	1420.0	30.0	-[			### 24.4 24.4 (TONS) #ISSING DATA 2160.0 (ACRES) 1200.0 1200.0 (ACRES) -02 .02 (TONS/ACRE)	14769.9	
REDUCE) TILLAGE: CHISEL PLOW (TONS)	747.2	1564.3	358.0	17.1	2695.5				3279.2	• • •
MAKINUM REDUCTION FILLAGE (TONS)	267.4	559.9	368.0	17.1	1212.4	ICRES	ICRES	ICRES)	1540.7	74.8
UINTER MAKINUM COVER REDUCTION CROP FILLAGE (TONS) (TONS) (TONS/ACFF) (TONS/ACRF)	1423.6	2980.4	1.107	17.1	5122,2 8	370.0 (ACRES)	6204.0 (ACRES)	2160.0 (ACRES)	6120.2	<b>9</b>
	1565.1	3276.A	770.9	ω α α .	5531.6	JATER RREA ONLY	JTHER LAND JSE AREA	4 ISSING DATA	6716.9	1.6-
OUCF SCIL SPRING SS 13 T PLOWING D EXISTING ONLY ONS) (TONS)	1423.6 1407.8 1.2 1.2	2947.5	693.4	16.9	5065.4	CRT)	ACRE)	10.0 (4CRES) 10.0 (4CRES) .02 (TOMS/ACRE)	6054.0	::
REDUCF SCIL SPRIYO LOSS 13 T PLOWIN AND EXISTING ONLY (TONS) (TONS)	1423.6	2933.7	701.1	17.1	5075.5	2.5 (TONS) 10.0 (ACRES) .25 (TONS/A	76-1 (1045) 4750-0(ACRES) -02 (10NS/	24.4 (TONS) 1200.0 (ACRES) .02 (TONS/A	ROSS EROSION 6065.5	6.
	1423.6	2980.4	701.1	17.1	5122.2 68	2.5 10.0	76.1 4750.0	1200.0	SJ4MAY TOTAL POTENTIAL GROS	0.0
3 350 USE	CROPLAND S4G 1	243PLAND 345	STOPLAND	CAOPLAND Swg	1	VINEVARDS AND ORCH.	31ASSLAND And Pasture	JOOFAND	SJ44A4Y TOTAL	PERCENT REDUCTION:

LAKE ERIE WASTEMATER MANAGEMENT STUDY U.S. ARMY COKPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives : Best Management Practice Scenarios

	EKISTING \$31L LOSS > 7 FACTOR 1 ACRES) (1008/ACRE)	12299.9	190.0	1168.0	90	• •	1720.0	]				
	• •	6,4884.9	21245.3	1160.0	11+76-9	6569.3	1720.0	112027.2				37£676.4
	3 ^	i	10949.5	3667.5	2147.3	1111.0	16640-1	159754.1				: : ::::::::::::::::::::::::::::::::::
IN BASIN	MAKIMUM REDUCTION TILLAGE 470NS)	256666.2 220577.6 46225.6 125239.1 5.3 4.6225.6 165239.1	4031.3	3667.5	2147.9	1111.0	6122.0 3.6	.]	ACRES)	ACRES)	ACRES)	625108.6 540402.5 134H40.9 31945 1.7 1.4 .4 .4
S. HETROPOLITAN PRATMI COUNTY: 62 ALL IN BASIM	UINTER COVER CROP (TONS)	220577.6	19886.4	3073.4	3883.5 5.3	1088.4	28760.7	277770.2	6300.6 (ACRES)	104207.2 (ACRES)	175482.1 (ACRES)	5+0+02.5
RAY MI COUN	FALL PLOUING ONLY (TOAS) (TONS/ACRE)	- I	22978.9	4169.0	1.17.1	1261.6	33441.0	523014.3	WATER Area only	JTHER LAND JSE AREA	4 ISSING DATA	625108.6
TROPOLITAN P	SPRING PLOWING G ONLY (TONS)	202828.9 222689.0 3.0 3.1	19987.3	3604.8	3940.1	1093.4	28940.3 16.8	279615.5 2.5	(TONS) WA! (ACRES) ARI (TONS/ACRE)	ACRE)	T _	543657.3
S. NE			20266.5	0.0846	3962.6	11111.0	0.0	258449.0	542.5 730.0 .74	4814.8 (TONS) 58408.4(ACRES) .08 (TONS/	5017.8 30028.7	64055 FROSION 4667852 543857. 1.2 1.2 1.3
H-RIVER	EAISTING POT-	-[	20313.2	3667.5	3962.6	1111.0	29422.4	284510.6	1042.6 730.0	4614.8 58408.4	5017.8 30028.7	552647.5 552647.5 1.5 7104:
34514: HURON RIVER		S46 1	313PLAND S46	346 3	CAOPLAND S46	CROPLAND 346 5	CROPLAND SMG 10	1	VINEYARDS AND ORCH.	32ASSLAND A1D PASTURE	JOODLAND	SUMMARY TOTAL POTENTIAL GR 552647.5 923CEVT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCENARIOS

7.2 7.1
ř
1.1

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCEMANICS

A1V	SASIN: AIVER RAISIN	NOWROE+H1	E+#1	NAC:	17: 39 JACK	COUNTY: 39 JACKSON, MICHIGAN	-		
1240 USE	EXISTING POT-RE GROSS EROSION AND (TOWS) (TOWS/ACRE) (TO	LOSS TO T PLONING ONLY (TONS) (TONS) (TONS) (TONS) (TONS)	LOSS TO T PLONING LOSS TO T PLONING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	VENTER MAXINUM COVER REDUCTION COND TILLAGE (TONS) (TONS) (TONS/ACRE)	E - 0	SOLL MENT. 640UP LAMO AMEA (ACRES)	EXISTING SDIL LOSS > T FACTOR (ACRES) (TDWS/ACRE)
S46 3	21277.0	18952.6	21277.0 18952.6 20995.2 23672.4 21277.0 4.6 4.1 4.5 5.1 4.6	23672.4	21277.0	3804.5		10560.0 +625.9	2669.7
STOPLAND STG 2	6-18+	481.9	415.5	5.86.2	481.9	86.2	239.4	7111.7	 
SAG AND	71.3	71.3	70.4	4.67	71.3	35.4	35.4	9.68	•••
SASPLAND S	156.2	136.2	134.4	151.5	136.2	136.2	136.2	9.00	• •
CAOPLAND S46 18	3219.0 16.1	622.7 3.5	3176.3	3581.4 20.1	3219.0 16.1	575.6	1598.8	177.9	177.9
TOPLAND			0264.7 24851.8 3.2 3.9	28020.9 25185.4 4637.9 12577.3 4.4 3.9 .7 2.0	25185.4	-[	12577.3	8-00-0	
JI VETARDS AVJ ORCH•	\$ <b>9</b> 9	000	(TDNS) JA (ACRES) AR (TONS/ACRE)	JATER AREA ONLY	533.7 (ACRES)	ACRES)			
SRASSLAND And Pasture	2312.9	146.1 (TONS) 2312.9(ACRES) .06 (TONS)	ACRE)	JTHER LAND JSE AREA	1779.2 (ACRES)	ACRES)			
HOODLAND	138.5		18.5 (TONS) 41 16.0 (ACKES) .07 (TONS/ACRE)	4ISSING DATA	36472.7 (ACRES)	ACRES)			
tARY TO1	ENT 1 AL 373.3		S EROSION 10309.3 124216.6 111773.3 21602.0 56445.7 1.5 1.5 2.4 .5 1.2	124216.6	111775.3	21602.0	•	47236.6	
PERCENT REDUCTION	0.0 0.0	. 19.3	1.1	-11.1	0.0	60.7	49.3		

LAKE ENJE JASTEVATER MANAREMENT STUDY U.S. ARMY CORPS OF ENGINCERS. PUFFALO DISTRICT Land management alternatives : PCST Management Practice Scenarics

	EXISTING 501L LOSS 7 T FACTOR (ACRES) (TOUS/ACRE)	27419.7 5.8		00.0	60	9.0	1960.0					•	
		51519.6	17209.3	1779.0	10099.9	3930.0	1860.0	1				S FROSION - 70.26.1 318566.1 368066.5 315819.5 71879.4 175794.2 112359.1 - 1.8 2.8 3.3 2.8 .6 1.5	
7 T	TILLAGE: CHISEL PLOW (TONS) (TONS/ACRE)	119016.2	14139.3	4746.2	1783.8	742.9	18942.4	159370.7 1.39370.7				175794.2	43.3
COUNTY: 40 MACHIENAL MICHIGAN	REDUCTION TILLAGE (TO'S) (TONS/ACRE)	44151.2	5245.2	4746.2	1783.8	742.R	7027.0 5.8	63696.2	CRESI	CRESI	(CRES)	71879.4 6.	77.9
TY: 43 EASHI	JUTER COVER CROP (TOVS) (TOVS/ACR <sup>F</sup> )	21A836.4	25996.1 1.5	4624.5	3279.9	723.7	34829.6	ZR8292.2	1440.0 (ACRES)	24609.8 (ACRES)	8999.9 (ACRES)	315819.5	2.5
C)UNI	FALL PLOWING ONLY (TONS) (TONS/ACRE)	255319.2	33331.1 1.8	5395°2 3.0	3926.5 . 4	A44.4	40534.5 21.8	336340.9	JATER AREA ONLY	JTHER LAVO JSE AREA	WISSING DATA	368006.5	-13.4
I # * :	REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	146425.1 220756.0 255309.2 21A836.4 44151.2 119016.2 2.9 4.4 5.1 5.1	26226.1 1.5	4665.0 2.6	5308.7	730.1	35135.1 18.9	290A21.0	(TOWS) JATER (ACRES) AREA (TOWS/ACRE)	CRE	19.9 (TOMS) 4 IS 19.9 (ACRES) -15 (TONS/ACRE)	318566.1 2.A	1.1
<b>ドラックセアの女</b>	LOSS TO T PLOMI. AND EVISTING ONLY (TONS) (TONS) (TONS)	146425.1	26682.2 1.6	4746.2	3366.2	742.8	6900.0	188862.5 2.2	233.8 C1 300.0 C1	878.4 (TONS) 8789.9(ACRES) 10 (TONS/	1357.9 (TONS) 9049.9 (ACRES) -15 (TONS/A	GROSS FROSION 207826-1 1-8	35.9
PIVER RAISTN	GROSS LOSS TO T PLOWING FROSTON AND EXTRING ONLY (TORS) (TONS) ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	224595.2	266R2.2 1.6	4746.2	3366.2 . 3	742.8	35746.2	1 295A76.8 3.5	247.0 300.0	878.4 8709.9 •10	1357.9 9049.9	RY TOTAL POTENTIAL GROS 324059.5 20 2.9	0.0
345IN: PIVE	Su Cvi.	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	343PLAND 345	CROPLAND SWS 3	345 AND	CROPLAND S46 5	STOPLAND STG 10	295A78.8 18	VINEYARDS AND ORCH.	SRASSLAND And pasture		SJAMARY TOTAL POTENTIAL 324059.5 2.9	FACENT REDUCTION:

LAKE ERIE WASTEWATER RANAGEMENT STUDY Land Management Altervatives : 8:51 Managiment Practice Scenarios

3451M: AIV	AIVER RAISIN	MONROE + MI	E.NI	COUNTY:		44 LENAVEE+ MICHIGAN	2		
750 08K	EXISTING POT- GROSS EROSION (TONS)	# J <	. N. E		300	E E F O C		· <u>o</u>	EXISTING 531C LOSS 5 T FACTOR (ACRES) (TONS/ACRE)
S46 1	1116226.0 14.4	288134.1	1061997.0	1170456.0	1075554.0	153550.5	474509.5 6.1	11560.1	77660.1
340PLAND 346	362152.3	196369.8	344557.9	379746.B	348956.4	49850.9	153951.4	91359.7	4.5546.4
S46 4	96462.6	96462.6	91776.2	101149.1	92947.8	*1006.4	41005.4	92515.3	00
S4S S4S	8513.4	9513.4	8.999.8	8927.0	8203.2	8513.4	8513.4	11386.6	• • •
C10PLAND SM6 10	63357.7 47.5	6227.0	60279.6	66435.7 49.8	61049.1	8721+3 6-5	26933.4	1334.4	1334.4
1	1111	595786.9	1566710.5	1726714-5 1586710-5 261742-5 6-3 5586 1-0	1586710.5 5.8	•	704913.3	704913.9 274256.5 2.5	
JINEYARDS And Orch.	426.0 355.8 1.20	385.9 (1	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER AREA ONLY	9073.7 (ACRES)	(ACRES)			
GRASSLAND AND PASTURE	3002.9 23336.6	3002.9 (TONS) 23336.6(ACRES) .13 (TONS)	ACRE)	JTHER LAND JSE AREA	42373.6 (ACRES)	(ACRES)			
4330LAND	5038.2 35938.9	5038.2 (13VS) 35938.9 (ACRES) 14 (TONS/A	18.2 (13.5) 41 18.9 (ACRES) .14 (TONS/ACRE)	41SSING DATA	5426.4 (ACRES)	(ACRES)		•	
SJYMARY TOT	NTIAL 79.3	GROSS EROSION 613993-1 1-8	1600777.6	1763382.2	1621192.7 4.h	274631.1	724975.3	0.55 EROSIDA 613993.1 1600777.¢ 1763382.2 1621202.7 274631.1 724975.0 539314.5 1.8 4.7 5.2 4.6 6.7	
SERCENT REDUCTION:	0.0	63.5	± •	£.	3.6	83.7	56.3		

LAKE ERZE WASTEWATER MANAGEMENT STUNY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES : REST MANAGEMENT ALTERNATIVES : REST MANAGEMENT ALTERNATIVES :

SASIN: RIVER RAISIN	FR RAISIN	RIVER RAISIN AGURDE. PI COUNTY: 47 FU		(Nnc)	COUNTY: 47 FULTON. 0410	01+0 -10			
LAND USE	EXISTING POGENOSS EROSION (TONS)	EXISTING POT-REDUCE SCIL SPRING GROSS LOSS TO T PLOUIW EROSIDM AND FXISTING DALY (TONS) (TONS) (TONS/ (TONS/ACRE) (TONS/ACRE) (TONS/	REDUCE SCIL SPRING LOSS TO T PLOWING AND FXISTING DALY (TONS) (TONS/ACME)	FALL PLOWING ONLY (TDMS)	FALL WINTER MAXIMUM REDUCED PLOWING COVER REDUCTION TILLAGE: ONLY CRCP TILLAGE CHISEL PLOW (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	REDUCTION TILLAGE (TOMS)	REDUCED TILLAGE: CHISEL PLOW (TONS)	SOIL MEMI. GROUP LAVO AREA (ACRES)	ERISTING \$31L LOSS > T FACTOR (ACRES) (104S/ACRE)
CAOPLAND S45	216.7		216.7 205.5	227.2	227.2 201.0 B2.9	82.9 .3	R2.3	R2.3 266.3	0.0
Tabland	140PLAND 216.7	216.1	-1	227.2	-[231.0	R2.9	82.3	216.1 205.5 227.2 201.0 82.9 82.3 266.3 .66.3 .8 .8 .3 .3	1
VIVEYARDS AND DRCH.	C 0 0	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	) ACRE)	JATER AREA ONLY	0.0	0.0 (ACRES)			
34ASSLAND 4VD PASTURE		0.0 (TONS) 0.0(4CRES) 0.00 (TONS)	ACRE)	JTHER LAND JSE AREA	89.0 (ACRES)	ACRES)			
DODLAND	0.00		0.0 (TONS) 419 0.0 (ACRES) 0.00 (TONS/ACRE)	4 ISSING DATA	) · 0	O.C (ACRES)		0.0 (TJVS) 41SSING DATA 0.C (ACRES) 0.0 (ACRES) 0.00 (TONS/ACRE)	
J4482Y TOT		-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	202.5	227.2	201.0	82.9	82.9	266.3	
PERCENT REDUCTION:	0	0.0	5.2	£ .	1.2	61.7	61.7		

LAKE ERIE HASTENATER NAMAGENENT STUDY U.S. ARMY CORPS OF ENGINEERS, RUFFALO DISTRICT Land Management Alternatives : dest management practice scenarios

JASIV: AIV	RIVER RAISIN	43643E+48	C+41	NOC:	COUNTY: 62 ALL IN BASIN	N 8451W			
Tang ust	EXISTING POT-R GAGSS L EROSION A (TONS)	LOSS TO T PLONIES AND EXISTING UNLY (TONS) (TONS/ACRE) (TONS/		FALL PLONING JNLY (TONS) (TONS)ACRE)	300	MAKINUM REDUCTION TILLAGE (TOVS)	REDUCED TILLAGE: CMISEL PLOU (TONS) TONS/ACYE)	• •	ERISTING SOIL LOSS > T FACTOR (ACRES)
348 340PLAND 346	10PLAMD 1372701.6 164195.6 131404.0	464195.0		1461059.0	1326350.0	203681.6	++++++++++++++++++++++++++++++++++++++	137184.4	107748.6
SAG 2	389516-1	223733.6	371452.6	410832.2	375636.1	55223.1	168443.1	189567.3	4.546.4
313PLAND 346 3	4617.4	4176.2	4732.7	5467.1 3.1	4695.7	4817.4	4817.4	1780.0	10.0
CROPLAND 546	100116.0	100116.8	95360.7	105282.1	0.00896	4.2908.6	42908.6	103060-4	• •
SASPLAND S	9605.2	9685.2	9170.0	10155.6	9276.0	9605.2	9665.2	16828.9	• •
CROPLAND 346 10	102322.0	13749.7	98591.1 29.2	110651.6 32.8	29.09	16323.9	11474.7	3372.3	3372.5 36.5
1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	10PLAND 1979159.3	816176.5	816176.5 1895351.1 2.2 5.1	210344 7.6	21034476 1911555.5 332559.8 883367.7 5.7 5.1 5.1 5.1	332559.8		1	**************************************
VINEYARDS AND ORCH.	693.7 744.8	641.9 (10NS) 744.8 (ACRES) .86 (TONS/A)	CRE)	JATER AREA OMLY	11670.1 (ACRES)	ACRES)			
344SSLAND AND PASTURE	+107.1 56049.6 -11	4107.1 (TONS) 36049.6(ACRES) .11 (TONS/	ACRE)	JTHER LAND JSE AREA	71224.5 (ACRES)	CAES			
4000LAND	6611.6 49258.8 -13	6611.6 (TONS) 48992.0 (ACRES) -13 (TONS/A	11.6 (TONS) 415 12.0 (ACRES) -13 (TONS/ACRE)	41SSING DATA	108604.7 (ACRES)	ACRES)	1 1 1 1 1	ISSING DATA 108604.7 (ACRES)	0 0 0 0 0 0 0 0 0 0 0
SJHHAAY TOT	NT 1 AL 27.2	680SS EROSION 1024030.6	2356469.9	2616389.9	2378991.4	425543.7	1106975.5	6. 6 mm in 19. 19. 19. 19. 19. 19. 19. 19. 19. 19.	
SEACENT REDUCTION:	DUCTION: 0.0	58.4	4.5	-6.2	# #1	N2.7	55.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY Land Management Alternatives : Best Management Practice Scenarics

BASIN: PAUMEE RIVER	EE RIVER	407641	ROLEUNITERUM	たいしつ	COUNTY: 03 SEVECA. SHIO	CA. DHIO			
	EXISTING POT GROSS EROSION (TONS)	MG POTAREDUCE SOIL SPRING LOSS TO T PLOUIN N AND EXISTING ONLY (TOYS) ACRED (TONS/ACRE) (TONS/	6 (CB)	FALL PLNUING ONLY (TONS)	300-5	FELO.	E-0	SDEL MGMT. GROUP LAND AREA (AGRES)	EKISTING S)1L LOSS > T FACTOR (ACRES) (1045/ACRE)
CAOPLAND SMG 1	1968.8 5.9	1156.5	1469.1	2116.4	1968.8 5.9	290.8	872.5 383.5 2.5	333.6	333.6
213PLAND 346 2	961.9 3.6	9.01.4 3.0	913.2	1035.0	961.9 3.6	142.1	.426.2	266.3	244.6 3.8
CAOPLAND S#G 3	38.1	36.1	36.2	# 1 • C	39.1	38 • 1	39.1	22.2	0.0
CROPLAND SMG 4	119.9	119.9	11.00	129.0	119.9	53.1	55.1	133.4	0.0
CROPLAND STG 5	9. 9.	6.6 8.	6.3 6.3	7.1	9.9 8.	9 . 8 .	2. 2.	22.2	000
1	304 304	2122.5	.1 2938.6 3.8	3330-F	3095.3	530.7	1396.3	779.5	
VINEYARDS And orch.	0 0 0 0 0 0 0 0 0	0.00	(TONS) JATER (ACRES) AREA (TONS/ACRE)	JATER Area only	22.2 (ACRES)	ACRES)	•		
SAASSLAND And Pasture	111.2	.4 (TONS) 111.2(ACRES) .00 (TONS)	ACRE)	THER LAND JSE AREA	177.9 (ACRES)	ACRES)			
JOODE AND	# 4 ·		8.	MISSING DATA	4470.1 (ACRES)	ACRES)			
SUMMARY TOTAL POTENTIAL 17918.0	NT 1 A L	GROSS FRESTON 12290.5 17011.3	17011.3	19278.9	17918.0	3079.3	8087.6 1.3	19278.9 17918.0 3079.3 8087.6 5484.1 3.6 3.6 1.3	•
SEACENT REDUCTION:	0.0	31.4	5.1	-7.6	0	82.0	54.3		

LAKE ERIE HASTENATER MANAGENENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT Land namagenent alternatives : best managenent practice scenarios

3451h: FA	SASIN: PAUNTE RIVER	WATERW	WATERVILLE .OM	COUNTY:	<b>9</b>	₽000. 0H10			
LAND USE	EXISTING POT-6 GROSS FROSSOM (TOMS) (TOMS/ACRE)		SPRING PLONING ONLY (72NS) (10NS/ACRE	FALL PLOWING ONLY (TONS)	UINTER COVER CROP (TONS) (TONS/ACRE)	Eg-Ju	& F U	EDUCED SOIL MENT: ILLAGE: GROUP LAND MISEL PLDM AREA TOWS: (ACRES)	\$2 (15.11 MG \$3.1L LOSS > 7 FACTOR (ACRES) (TOMS/ACRE)
140PLAMD 546 1	20121-1	18610-9	22619.1	18616-9 22619-1 25053-0 3-2 3-9 4-3	22619-1	1 - 400 E		5621.6	296.5
CROPLAND 546 2	44618.8	39910.8 1.6	41846.3	16416.6	41840.3	5556.9	17814.9	24256.1	5199.1
CROPLAND S46 3	6612.4	3291.4	6200.6	6878-8 6-3	6200.6	6612.4 6.0	6612.4	1097.1	1097.1
CAOPLAND SHG	6123.3	8123.3	7617.5	1.2	7617.5	5243.4	3243.4	7344.0	9.0
CROPLAND 316 5	1192.6	1192.6	1118.3	1240.6	1116.3	1192.6	1192.5	3.638	9 9
CROPLAND S46 B	919	37951.6	35588.3 1.0	35460.8	35588.3 1.6	15152.8	15152.8	5,248.8	30
1	122619.8	109286.6	114984.1	114984.1 127560.4 114984.1 1.6 1.7 114984.1	114984.1	34762.2	53646.3	73637.4	I
VINEYARDS AVD DACH.		0.6.	(TONS) J (ACRES) A (TONS/ACRE)	JATER GREA ONLY	978.5 (ACRES)	ACRES)			
GRASSLAND AND PASTURE	126.9 IE 3301.3	126.9 (TONS) 3301.31ACRES) .04 (TONS)	ACREJ	STHER LAND JSE AREA	5347.4 (ACRES)	ACRES)			
JOOPLAND	205.3 3348.9	205.3 (1 5340.9 (1	(TONS) 4 (ACRES) (TOYS/ACRE)	MISSING DATA	1047.7 (ACRES)	ACRESI			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SCHRARY TO		<u>.</u> 5	116622.1	055 FROSION 129562.5 116822.1 35553.4 5468.4 81337 11044.2 11644.2 1.4 1.4 1.4 .1	116822-1	3555.	54684.4	~	•
SERCENT REDUCTION:		10.A	6.2	-4.3	2•9	71.5	55.1		

PASIN: MAUNEE RIVER	MEE RIVER	MATER	WATERVILLE . OH	FUO.	COUNTY: 24 LUFASA 0410	S• 0H10			
LAND USE	EXISTING POT GROSS EROSION (TOMS) (TOMS/ACRE)	EXISTING POT-REDUCE 501L SPRING 660SS 10 T FLOUTH ROSSION AND EXISTING JULY 110MS ACRES (TONS) 100MS AGRES (TONS)	SPRTNG FLOWING G JULY (TONS) (TONS)	REDUCE 501E SPRING FALL LOSS TO T FLOWING FLOWING AND EXISTING DWT TOWN (TOWN) (TOWN) (TOWN)	WINTER CONTR CROP (TONS) (TONS)	MAYER MAXIMUM COVER ACDUCTION CROP TILLAGE TIONS) TTONS) TTONS/ACRE)	·	SOIL MEMT. SHOUP LAND AREA IACR'S)	Faisting 531L Loss 5 7 Factor 628ES) (1093/ACRE)
STOPLAND 346. 1	13PLAND 2667.7	<u>:</u>	7545.1	1213.7 2545.1 2790.4 4.2 8.3 9.7	2596.2 9.1	368.0	1105.3	246.5	227.3
C40PLAND 546 2	1622.9	1622.9	154P.3	1697.5	1579.4	223.8	471.5	1438.5	
C13PLAND SMG 3	824.8	266.9	7.66.9	462.7	9.0	R24.8 9.3	824.8	0.68	9 m · \$ *
CROPLAND S46	119.7	114.7	109.5	120.0	1111.7	41.5	44.5	108.7	2.0
CAOPLAND S46 5	362.4	362.8	346.2	379.5 1.2	353.1	362.8	362.9	306.4	
CTOPLAND STG 8	772.0	772.0	736.5	1.0	751.3	319.4	319.	E.00.E	
TOPLAND	6354.9	1	4353.0 £072.5	6657.4	6194.4	21 46.3	3329.3	M + 4 > 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1
VINEYARDS NVO ORCH.	32.6	32.8 (TONS) 69.2 (ACRES) .47 (TONS)	40473	JATER AREA ONLY	336.4 (ACRES)	ACRES)			
SRASSLAND NUO PASTUPÉ	20.5 830.3	20.3 (TONS) 830.3(ACRES) (TONS)	(CRF)	JTHER LAND JSE RREA	1415.4 (ACRES)	ACRESP			
WOODLAND	988.4	SANT CACREST	Hand (TONS) 41	MISSING DATA	2520.5 (#CRES)	*CRES)			
SJMMARY 101 AL	11 P. 19.0	5RDSS EROSION > 6529.6	N 9059.5	9920.9	9238.9	32A2.7	5024.2	inoss Erosion (1959.5 9920.4 4238.9 3282.7 5024.2 7867.9 6529.6 1.2 1.3 1.2 .4 .5	
PERCENT REDUCTION:	0.0	11.2	4.3	•	2.6	65.4	1.1		

LAKE ERIL MASIEWATEN MANAGENIT SIUCY Land managenent alternatives : Best Hanagenent Practice Scharics	U.S. ANPT CORPS OF EIGHTERS, PUFFALO DISTRICT	
CARL CASSELATER RANACERINT STUCY DANAGENENT ALTERNATIVES : REST SANAGERENT PRACTICE SERV	PS OF 6'6	AR 10.5
CRIL WASTEWATEN MANAGEMENT STUCY NAMAGEMENT ALTERNATIVES : REST MANAGEMENT P	ese and Com	RACTICE SCEN
	ERIL MASIEMATEM MANAGEMENT STUDY	MANAGEMENT ALTERNATIVES : PEST MANAGEMENT P

BASIN: MAUNÉE RIVER	: MAUNEE RIVER - 647	#47ERI	WATERVILLF + DM	NOC:	COUNTY: 14 MANGOC4. OHIC	0C4. JHIC			
LAND USE	EXISTING POGROSS CROSSON (TONS) (TONS)	Ė	REDUCE SOIL SPRIMG LOSS TO T PLOWING AND EXISTING ONLY (TOMS) (TOMS/ACRE)		UNITER COVER CROP (TD'S)	FALL HINTER NATINUM REDUCED PLOMING COVER REDUCTION TILLAGE: PLOM TONS (TONS) (TONS) (TONS) (TONS)ACRE) (TONS/ACRE) (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOU (TONS/ACAE)	SOLL MGMT. 540JP LAND 44EA (acres)	EMISTING SOLL LOSS > 1 FACTOR (ACRES) (TOWS/ACRE)
CROPLAND S43 1	91343.3		44410.9 86173.0 5.4 5.4		-1	11719.5	36882.0	94790.2 866624 11119.5 1682.0 12891.4	12246.9
CROFLAND 546 2	+228+3.9 3.6	297566.7 2.7	394965.3 3.6	434H30.2	402100.5 3.6	54251.7	170733.1	112217.6	83766.1
STOPLAND 3	6048.6	2550.1	5706.2	6276.0	5751.9 6.6	60 46.6	6048.5	650.0	850.0
SROPLAND 346 4	53486.7	53466.7	8.459.8	3.55.53 6.	53862.6	21596.5	21596.5	59772.3	9
S10PLAND S46	12230.0	11066.8	11537.7	12691.5	11630.0	12230.0	12250.0	8937.9	111.2
CROPLAND SYG B	7608.8 1.2	7608.8	1178.1	7495.9	1235.6	3072.2	3072.2	6.19.1	20
STOPLAND	593561.3	593561.3 416630.0 3.6 2.1	559963.4	615959.1	154443.2 2.8	106918.5	108918.5 250562.4	201148-2	· · · · · · · · · · · · · · · · · · ·
VINEYARDS AND ORCH.	000	0.0 (TONS) 6.00 (TONS)	GE C	JATER Area only	5737.8 (ACRES)	ACRE S)			
31ASSLAND AND PASTURE	272.5 6375.3	272.5 (TONS) 6375.3(ACRES) .04 (TONS/	(CR.T.)	JTHER LAVO JSE AREA	22044.2 (ACHES)	ACHESI			
400DLAND	1010.1 17808.9		10.1 (TOYS) +1. 0b.9 (ACRES) .06 (TONS/ACRE)	415SING DATA	2513,1 (ACAES)	ACAE S)			_
SJAMARY TOT	NT ! AL 78.1 2.6	- G	067505.0	124126.3	572055.3	111430.2	254653.4	ROSS EROSION 422573.5 DEFDOD.0 L24126.7 D72015.3 111430.2 254653.7 227445.5 1.9 .5 1.1	
PERCENT REDUCTION:	UCT 10N:	1.60	5.5	-3.4	5.4	A1.5	57.1		

LAKE ERIE WASTEWATER MANAREMENT STUDY	U.S. 48MV	CORPS OF	Englisters.	U.S. APMY CORPS OF E"INITIAS. BUFFALD DISTAICT
LAND MANAGEMENT ALTERNATIVES : DEST MANADEMENT PRACTICE SPENARIOS	PRACTICE	SUL NAN 105		

3651%: MAUNEE RIVER	MEE RIVER	WATE &	date aville.On	NOCO.	COUNTY: 11 EVANDOT+ OHIO	001. OHIC			
.440 USE	EXISTING POT GROSS EROSION (TONS)		REDUCE COTE SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	FALL PLOWING DNLY (TCUS) (TCRS/ACFS)	TURNEY TONES  ONLY COVER  FROM  ONLY (1045)  (1045)  (1045)		REDUCED STILLAGE: SETU CHISTL PLOW AREA (TONS)	5312 M6M1. 51332 LAVD AREA (ACQES)	EXISTING 571. 235 571. 235 571. 235 66.00 66.00 66.00
CAOPLAND S46 1	24633.5 R.5		F276-1 21875-5 24348-9 24365-0 2-9 8-3 9-1	26358.9	24065.0	3316.0		2991.1	2779.9
S4GPLAND	46672.7	33672.9	45236.6 3.8	44903.R	45595.6 3.6	6282.9	19.67.1	11920.5	10097.8
CAOPLAND 343	516.6	510.6	494.9	546.0	438.P 2.5	510.6	510.5	200.2	0.0
230PLAND SYG 4	5057.4 8.	5057.4	4901.8	5407.5	4.940.7	2100.8	2100.a	4315.0	0.0
CROPLAND S43	284.4	284.4	275.6	304.1	277.8	284.4	28	422.5	0.0
CADPLAND S46 B	191.6	101.6	185.7	204.9	197.2	79.6	79.5	155.7	3.0
CROPLAND SHG 9	151.0	1.1	437.1	1.2	4.0.6	451.0	451.0	400.3	0.0
Z-1.2PLAND	77801.2	48437.1	75407.2 R3197.4 76035.7 3.4 5.4	H3197.4	76035.7	13025.3	33045, 9	22306-1	
VINEYARDS AND ORCH.	22.2	64.6 (TONS) 22.2 (ACRES) 2.91 (TONS/A)	251	JATER AREA ONLY	430,3 (4CRES)	ACRES)			
SRASSLAND NVD PASTURE	11.6	11.6 (TONS) 155, TCACPES) .	CRC)	JTHER LAND JSE AREA	1223.2 (ACRES)	ACRES)		•	
	68.1 1245.4 .05	68-1 (TOWS) 1245-4 (ACREG) -05 (TOWS/A	18-1 (TOWS) *15-15-4 (ACRES) *05 (TOWS/ACRE)	TISSING DATA	1378.P (ACRES)	ACRES)			
SJ44AT TOTAL POTE	11 POTENTIAL 82474-5 5.5	5.144A4Y TOTAL POTENTIAL GROSS ENSISY 82474-5 51404-2 5-3 2-3 2-3	79941.4	AR173.7	A0574.7	13934.8	35118.7	TAL POTENTIAL GROSS ERUSION  92474.5 5140.2 79941.4 ARIT3.7 R0574.7 13434.4 35118.7 25108.2  3.2 3.5 3.7 3.2 1.4  DUCTION.	
	0.0	1.11	3.1	e.4-	2.3	83.1	57.1		

LAKÉ ERIE MASTEWATER MAMAGEMFMT STUDY U.S. AKMY COKFS OF ENGINÉERS. BUFFALO DISTRICT Land mamagement alternatives : Best mamagine it phactice scenarius

	. 9		16661.5 2629.4	0.0	19214.9 0.0 B.6	5691.5	•	53196.3				******	
	REDUCE) TILLAGE: CHISEL PLOW (TONS) (TONS)	1.1	19279.3	3466.4	5.0969	3707.7	914.1	47634.4				6.3005.5	
IN. 1410	44x14U# RECUCTION TTLLAGE (TOYS) (TOYS/ACPE	7.8084 7.808.4	5946.1	3466.4	4.0969	1.101.1	914.1	25698.5	(acaes)	(ACRES)	(ACRES)	42350.2	
C.UMTE: 12 EARDING JATO	COVER CROP (TONS) (TONS)	33326.7 36342.2 4.0 3634	43945.4	3343.1	15072.5	3575.8	2684.4	99183.4	1223.2 (46455)	3669.5 (ACRES)	ISSING JATA 39946.6 (ACRES)	166156.3	
₩P: 3	44	-	48264.5	3671.3	17453.7	3927.5	2289.4	106959-1	AATER Area omlt	JTHER LAND JSE ARFA	4155146 DATA	132438.9	
BETERVILLE , CH	SPR ING PLO41%6 5 ONLY (70%5) (10%5/ACRE)	50217.9	43185.2	3325.4	15807.4	3561.2	2075.9	85392.8 96777.0	G.C (TONS) 44 B.D (ACRES) AR B.BB (TONS/ACRE)	CAC		165,59.3	
UN TERN	EDUCE 501L 0SS TO T ND EXISTING TONS)	, i	38263.5	3466.4	16.57.9	3787.7	2161.3		3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19. U (TONS) 1000-HCACRES) .02 (TONS)	228-3 (TUNS) 5484-2 (ACRES -04 (TONS)	143094.4 143094.4	
EE RIVER	CA157186 POT-RICEOSS L. EROSION A (TONS) (TONS)	31461.4 21335.2	45587.8	3466.4	16457.9	3707.7	2161.3	102841.7	0 <b>0</b> 0	19.0	228.3		
SASIN: PAUNEE RIVER	350 671.	CLOPLAND	:43PLAM0 2	CAOPLAND 3	CROPLAND	7.410	LAND	1	AINEYAKOS AUD ORCH.	SABSSLAND AND PASTURE	4330LAWD	SJRRARY TOT	

LAKE ERIE WASTEWATER MANAREWTUT STUDY U.S. ARMY CORPS OF FYLIVEERS. PUFFALT DISTRICT Land Management Alternatives: Pest Manarepfut Fractice Scenarios

BASIN: PAU	PAUMEE RIVER	WATER	WATERVILLE	COUNTY:	TY: 15 MEMRY. OHIO	отно			
	EXISTING POTER GROSS EROSION (TONS)	~	SPRING PLOWING ONCY (TONS)		JIVTER COVER (ROF (TONS) (TONS/ACRE)	ABY FAUN AEDUCTION TILLAGT (TONS)	# # # # # # # # # # # # # # # # # # #	SORE MENT. SADJO LAND AAEA (ACAES)	F41571M6 531L LOSS 5 T FACTOR 1 ACRES (TOUS ACRES)
CROPLAND S46 1	37190.2	24071.9	34675.6	5R249-3 5-7	54410.9	6.89.9	14426.1	6671.9	4003.1 6.A
240PLAND 546	66435.8 1.4	66435.8	61943.8	68327.2 1.4	61470.5	A938.5	25770.5 .5	8*51,64	C . 0
CROPLAND S4G 3	46996.0 3.2	43737.6 3.0	4.64.64	3 • 48884 8 • 8	9.88 46.84 9.8	46996.0 3.2	46996.3 3.2	14579.2	14579.2
S4S 4	8853.8 1.1	8853.8 1.1	#255.1 1.3	9105.8	8192.1	# * #N #N	3434.4	7917.2	6.0
CROPLAND S4G 5	9916.3	6541.2	9245.8 1.8	10198.7	9175.3 1.8	9916.3	9916.5	5110.1	266.9
CROPLAND 543 A	159413.6	159413.6	144634.7	163952.0 1.3	147500-1	61836.6	61835.5	126774.7	9.0
CROPLAND S46 9	7973.1	1.3	7454.0	8200.1 2.2	7377.2	1973-1	7973.1 2.2	3547+3	177.9
CROPLAND S46 10	53795.9	8.89.6 2.5	52158.4 112.8	55327.4	49775.6	6589.1	29867.4	¥.	120.9
CAOPLAND	.1	31460A.2 1.5	364165.9	401694.2	361386.0	149203.9	191220.1	210160.3	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
VINEYARDS AVD ORCH.	9000	0.0	(TONS) JA (ACRES) ARI	JATER ARSA ONLY	6652,1 (ACRES)	ACRES)			
SPASSLAND And Pasture	33548 6098.5 406	335.A (TCNS) 6094.5(ACKES) .06 (TONS/	ACRE)	JIMER LAND JSE AREA	20934.7 (ACRES)	ACRES)			
GNALGOOL	1216.6 12207.0	1110.6 12207.0	~	<b>2</b>	4151.4 (ACRES)				
SJAMARY TOTAL POTE 3991 PERCENT REDUCTION:	N7 JAL 29.7 1.7	FADSS FROSION 372249.	372249.2 372249.2 1.6	410447.5	369419.8 1.6 1.6	7419.8 153448.5 1.6 153448.5	1962 155 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	234617.9	
	:	•		;			,		

LAKE ERIE WASTEMATER AARAGERENT STUDY U.S. ARRY CORPS OF ENGINEERS, BUFFALO DISTALCT Lamb Maragerent alternatives : Best Maragerent Practice Scenarios

BASIN: MAU	MAUNEE MIVER	WATER	WATERVILLE.OM	COUNTY:		45 HILLSJALE+ MICHIGAN	***		
- LAMB USE	EKISTIME POT S GROSS EROSJON (TOWS) (TOMS/ACRE)	-REGUCE SOIL SPRIM LOSS TO T PLOUS AND EXISTING ONLY (TOUS) (TOUS)	SPRING PLOWING 6 SNLT (TONS) ACRE)	FALL PLONING JULY (TONS) (TONS/ACKE	LINTER COVER COVER CROP (TJNS)	MAXIMUM KEDUCTION TILLAGE (TOYS) (TONS/ACRE)		• •	ERISTING SOLLOSS > 7 FACTOR (ACRES)
C10PLAM0 161281.	-1	161287.0	~	155313.4 175225.4 2.3 2.6	1612H7.0 2.4	1612H7.0 50863.6 2.4 .5	89603.9	66151.5	0.0
CROPLAND SHG 2	54096.9	54690.9	52967.5 2.2	58765.4	54090.9	19350.1	30850.5 1.3	25848.7	99
CAOPLAND S46 3	4.103.4	37629.2 3.0	43047.7	46566.7 3.3	44703.A 3.6	44703.4	44703.4	12543.1	12543.1
CROPLAND 395	2751.6	2751.6	7.6492	1.8865	2751.6	1526.7	1528.7	4181.0	90
210PLANG 516 5	15499.7	15499.7	1.925.7	16839.2	15499.7	15499.7	15499.7	27510.1	0.0
LAND	36.4	3. 3.	8. 8.	61.5	36.6 3.	36.6 6.	86 6 6 6 6 6 6	0.68	00
CROPLAND	278389.2 2.1	271315.0	268078.5	302447.6 278349.2 103002.7 2.3 2.1 2.1 8	278349.2	103002.7	181442.7	134415.4	
VINEYARDS And orch.	29.1 89.0 6.33	29.1	(TONS) JA (ACRES) ARI (TONS/ACRE)	dater arfa only	7472.5 (ACRES)	ACRES)			
SRASSLAND AND PASTURE	474.9	474.9 (TONS) 14411.2(ACRES) .03 (TONS)	ACRE)	STHER LAND JSE AREA	178HD.5 (ACRES)	ACRES.			
AOODLAND	1860.0 34966.4 .05	1860.0 (TONS) 34968.4 (ACRES)	(TONS) 41. (ACRES) (TONS/ACRE)	415SING DATA	1868.1 IACRES)	ACRE S)			1 2 0 0 0 0 0 0 0
SUMMARY TOT	SUMMARY TOTAL POTENTIAL 283605.5	GROSS FROSION 276459.5 1.5	27319C.1	30790B.4	283635.5 1.5	106437.2	185674.1	SURMARY TOTAL POTENTIAL GROSS FROSION 20000055 276455.5 105762 16576.1 185744.1 1.5 1.5 1.5 1.5 1.5	
PERCENT REDUCTION:	UCT10N: 0.0	2.5	3.7	-4.6	3.3	62.5	34.5		

LAKE ERJE BASTEVATER MANAGEMENT STUDY 10.5. ARPV CORPS OF FYGINGERS. RUFFALD DISTRICT LAND MANAGEMENT ALTERVATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

711.7 14650.8 15485.8 14230.2 2032.9 6278.3 177. 4.0 79.0 RT.0 MG.0 11.4 33.1	2825,3 2449,0 2942,4 2722,3 2925,3 2425,3 3202,	6926.5 6590.0 7263.1 6674.2 2944.5 2944.5 7650.	266.9 415.4 458.2 421.1 437.0 437.3 A9. 3.0 4.7 5.1 4.7 4.9 4.3	33715.7 \$6573.8 62351.6 57296.1 RIRS.1 25277.7 12098. 2.8 %.7 5.2 %.7 .7 2.1	422487.4 466375.9 428285.9 61183.7 188949.7	EXISTING POT-REDUCE SOIL SPRING FALL LIVIER WAY INUM REDUCED SOIL MGVT. GROSS LOSS TO PLOLING COVER REDUCTIVE TILLAGE: SADJO LAND AND EVISTING DALY DALY TILLAGE CHISEL P.DA REA (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS/ACRE) (TOWS/ACRE) (TOWS/ACRE) (TOWS/ACRE)	
554597.2 509629.8 77608.5 226712.2 10.3 9.4 1.4 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4	19.0 R7.0 R6.0 11.4 35.1 15.0.2 2032.9 6278.3 15.1 15.0 11.4 35.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1	650.8 15485.8 14230.2 2032.9 6278.3 79.0 17.0 11.4 33.1 179.0 RT.0 RG.0 11.4 33.1 175.8 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18	590.0 7263.1 6674.2 2944.5 2944.5 4.9	415.4 456.2 421.1 437.0 437.3 4.7 4.9 4.3 4.3 590.0 7263.1 6674.2 2944.5 2944.5 6676.2 2944.5 2944.5 6676.3 2942.5 2944.5 2948.5 6676.3 2962.5 2962.3 2825.3 676.0 11.4 33.1 10.4 10.5 2045.0 (ACRES)	# 62351.6 \$7296.1 RIRS.1 25277.7 L20 # 15.8 \$5.2 \$421.1 \$437.0 \$437.3 # 15.8 \$5.1 \$4.7 \$4.9 \$4.3 \$4.3 \$4.3 \$4.3 \$4.3 \$4.3 \$4.3 \$4.3	#52487.4 #66375.9 #27245.9 61183.7 188949.7    56573.8 62351.6 57296.1 R185.1 25277.7    415.4 45.7 5.2 421.1 437.0 437.3    425.9 0 7263.1 6674.2 2944.5 2944.5    249.0 7263.1 6674.2 2944.5 2944.5    249.0 7263.1 6674.2 2944.5 2944.5    249.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 6674.2 2944.5 2944.5    259.0 7263.1 74.4 6276.3    250.2 65.9 7.2 50962.9 7.2 50962.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	
554597.2 5096.9.8 77608.5 226712.2 10.3 9.4 1.4 4.2	14050.8 15485.8 14230.2 2032.9 6278.3 17.0 AG.0 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 33.1 11.4 3	2668.0 2962.6 2722.3 2925.5 28	6590.0 7261.1 6674.2 2944.5 2944.5	6590.0 7263.1 6674.2 2944.5 2944.5 2944.5 244.5 4.9 4.3 4.3 4.9 4.3 4.9 4.3 4.3 4.9 4.9 4.3 4.3 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.9 4.3 4.9 4.9 4.3 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	56573.8 62351.6 57296.1 RIR5.1 25277.7 2.1 415.4 958.2 421.1 437.0 437.3 6590.0 7263.1 6674.2 2944.5 2944.5 2659.0 7263.1 6674.2 2944.5 2944.5 14650.8 15465.8 14230.2 2032.9 6278.3 179.0 RT.0 AG.0 11.4 593.5 554597.2 5996.5 226712.2	\$6573.6 6235.7 42825.5 61183.7 188949.7 5578.7 5578.7 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	
	14650.8 15485.8 14230.2 2032.9 6278.3 79.0 RT.0 AG.0 11.4 35.1	245A.D 2962.5 2722.3 2925.5 2825.5 3: .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .	6590.0 7263.1 6674.2 2944.5 2944.5 71  2444.0 2942.5 2722.3 2925.3 2425.3 3:  14650.8 15465.8 14230.2 2032.9 6278.3 71  19.0 R7.0 46.0 11.4 335.1	4.15.4 458.2 421.1 437.0 437.3 4.7 5.1 4.7 4.9 4.3 6590.0 7263.1 6674.2 2944.5 2944.5 76 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .	56573.6 62351.6 57296.1 R1R5.1 25277.7 L20 415.8 458.2 421.1 437.0 437.3 4.5 5.1 423.1 6674.2 2944.5 2944.5 6590.0 7263.1 6674.2 2944.5 2944.5 7 6590.0 7263.1 6674.2 2944.5 2944.5 14650.8 15485.8 14230.2 2032.9 6278.3 114950.8 87.0 87.0 80.0 11.4 35.3	#52487.4 #66375.9 #28245.9 61183.7 188949.7 15.1 15.1 15.1 15.1 15.1 15.1 15.1 15	7.5

LAKE ERIE WASTEMATER MANAGEMENT STUDY LAND MANAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCENARICS

BASIN: MAUR	MAUNEE RIVER	WATER	WATERVILLE.OH	4000	COUNTY: 45 STEU	45 STEUGER. INDIANA			
	EXISTING POT-16 GROSS 1 (EROSION CTONS) (CTONS) (CTONS) (CTONS)	EDUCE SOIL OSS TO T ND EYISTIN TONS)	SPRING PLOUING CONLY (TONS)	F 5	300-5	441NUM REDUCTION 77LLASE (TONS) (TONS/ACRE)	TILLAGE: CHISEL PLDW (TONS)	531L 46MT. 640JP LAND 84EA (4625S)	E4151146 5316 1355 5 7 FACTOR (ACRES) (1045/ACRE)
CAOPLAND S46 1	163487.1	54353.2	155271.7	176631.6	155271.7	-1	78046.6	111111111111111111111111111111111111111	15928.4
SASPLAND 2	11319.5	11319-5	10750.6	12229.6	10750.6 2.5	1649.6	5405.3	4358.9	99.0
CAOPLAND S46	1018.0	1018.0	966.8	1059.4	966.6 2.2	1918.0	1018.0	<b>0</b> • • •	000
STOPLAND	2556.6	2558.8	2430.2	2764.5	2436.2	1221.5	1221.5	1314.1	••
CROPLAND \$45	366.9	366.9	348.5	396.4	346.5	366.9	366.9	522.7	0.5
C10PLAND SRG 9	153.4	4.00 M	1.5.7	165.8 .9	1.5.7 	153.4	155.4	177.9	00
213PLAND	-11- 178903.7 7.0	69769.8	159913.5	193287.9	169923.5	28234.2	86210.2 3.4	2541.9	
VINEYAROS And orch•	\$ 0 0 9 0 9 0	0.0	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER Area only	2411.9 (ACRES)	ACRES)			
SAASSLAND AND PASTURE	299.7 2223.9	299.7 (TONS) 2223.9(ACKES)	ACRE)	JTHER LAND JSE AREA	2757.7 (ACRES)	ACRES)	•		
JODE AND	1368.5	1368.5 6376.0	(TONS) 41 (ACRES) (TONS/ACRE)	41SSING DATA	10753.9 (ACRES)	ACRES)			
SJAMARY TOTA		94066.4	225931.2	256749.5 225933.2 39374.2 5.1 5.0	-1	5.9574.2	115714.1	44745.6	
PERCENT REDUCTION:	JC110N: 0.6	+04	5. č	. ñ.	9.4	# 3. £	51.3		

LAKE ERIE MASTEMATER ARAKKEPTAT STUPY U.S. ARRY CORPS OF ENGINEERS. RUFFALO DISTRICT Land Management alternatives : Pest Management Practice Scruarios

SASIN: FAU	PAUMEE ALVER	WATER	HATERVILLE . OH	COUNTY:		46 MILLIAMS. DHIS			
	EXISTIME POTOR LEROSION A (TOVS)	LOSS TO T PLOBING ONLY (TONS) (TONS) (TONS) (TONS) (TONS)	EDUCF SOIL SPRIMG OSS TO T PLONING NO EXISTING ONLY TONS) (TONS)	FALL PLOWING ONLY (TOYS) (TOYS/ACRE)	JINTER COVER CROP (TONS)	TAKETUM AEDUCTION TILLAGE (TONS) (TONS/ACRE)		4647. LAVD	ETISTIVE SOIL LOSS > T FACTOR (ACACS) (TOMS/ACRF)
CROPLAND	1 40804	408944.1 161967.1 Japabe.0	0.4866.0 0.88.0	429222.4	397115.2 8.2	397115.2 59144.e 175744.e		49482.0	1
240PLAND 546	371997.0	171073.H 2.5	353551.0 5.2	390445.2	361236.8 5.3	53801.2	159866.4	68497.5	0.101.0
CHOPLAND 346 3	51061.2	*5635.4 3.0	48529.3 3.2	53593.2 3.5	44584.2	51061.2	51061.2	15211.9	15211.8
CROPLAND S46	21092.9	21892.9	26647.0	22138aq	23482.8	7.9900	9064.1	24295+5	0.0
SAGPLAND SAG	16987.8	9541.7	16145.5	17830.2	16496.4	16987.8	16987.9 I.3	3429.5	30.9
CROPLAND S46	3284.3	3284.3	3121.4	3447.1	3169.3	141144	1411.4	3123.5	0.0
SAS 9	7299.0	7299.0	1.2569	7661.0	7087.9	1299.0	7299.0 1.1	6936.7	0.0
C4OPLAND 546 10	59156.4 A3.1	2046.0	56223.1	62089.R A 7. 2	57445.3	4555.7 12.0	25422.6	711.7	7230.7 H5.2
SROPLAND	939822.7 5.3	21940.2	-I	986425.8	912637.9	207325.8	1	176670.2	
WIVEYARDS AND ORCH.	0000	0.000	(TONS) JA (PCRES) AR (TONS/ACRE)	JATER AREA ONLY	9874+3 (ACRES)	ACRESS			
34ASSLAND 440 PASTURE	788.6 7383.5	788.5 (13NS) 73R3.5(ACRES) . 39 (10NS)	ACR.)	JTHER LAND JSE AREA	22328.4 (ACRES)	ACRESI			
4000CAND	3553.9 27310.0			MISSING DATA	27132,1 (AC4ES)	ACUES)	,		
SJAMARY TOTAL POTE 18692 PERCENT REDUCTION:	84174 65.5 65.5 6.0		55 Equision 10126A1.0 4.2 2.0 4.9	1117850.8	1045911001 1045911001 1045911001	1117850.8 1034591.6 234740.2 509013 4.7 4.3 1.0 2 -4.4 2.9 2.9 77.6 52	2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 1 2 2 1 2 2 1 2	2 03 4 4 5 . 5	

LAKE ERIE MASTEMATER MAMAGENFAT STUDY Land Mamagenemt altervatives: Best Managinent Practice Scevarios

BASIN: MAUNEE RIVER	HEE RIVER	NATER	NATERVILLE . OM	: A L NOOD		* rollow. onle			
Tand use	EXISTING POTANGENOSS LOGENOSION AND CTOMS)	DUCE SOIL 155 TO T 10 EXISTING 10NS)	SPRING PLOUING OULY (TONS)		LINTER COVER CROP (TONS)	2 E	AXIMUM RÉDUCED SOIL MGMT EDUCTION TILLAGE: GROUP LAN ILLAGE CHISEL PLDA 41E4 TOMS) (TOMS) (AC4ES)	SOIL MGMT. GROUP LAND AREA (ACRES)	E4157746 531L LOSS > 7 FACTOR (ACRES) (TOMS/ACRE)
SAG 1	3.0PLAND 2.69172.6	71206.5	255249.9	262167.1 249680.8 14.5 12.8	249680.8	•	103028-1		17168.9
CROPLAND S45	\$5664.4 1.7	72427.7	82310.7	50990.1 1.4	80514.8 1.6	9877.3	33223.5 .5	51586.5	5070.6 5.8
SAG SAG 3	52673.6	26153.6 3.0	49947.2	55214.4 6.3	4857.4 5.6	52671.6 6.0	52671.5 6.0	9717.9	6.117.9
CROPLAND 4	11107.7	41407.7	39265.9 1.0	43436.7	38409.2 1.0	15849.1	15849.1	39653.1	99
SROPLAND 5	8273.0	8273.0	7845.1	1.3	7673.9	8273.0	8273.0	5949.7	
CROPLAND S45	7447.5	1447.5	7062.3	7807.0	6908.2	2850.6	2850.6	1021.1	
CROPLAND S46 9	6176.6	6176.6	5857.1	6474.P	5729.4	6176.6	6176.6	5426.4	0.0
STOPLAND	2	33092.6	447538.2	+94733.1 3.6	437773.7	126328.2	-1	133953.2	1
VINEYARDS And orch.	3000 800 800	0.0 (TONS) 0.0 (PCRES 0.00 (TONS)	ACRE)	JATER AREA ONLY	5604.3 (ACRES)	ACRESI			
34ASSLAND 44D pasturé	225.8 5070.6	225.8 (TONS) 5070.6(ACRES) .04 (TONS/	ACKF)	JTHER LAUD JSE AREA	16724.1 (ACRES)	ACRES)			
400DLAND	1083.4	1083.4 (TONS) 12098.2 (ACRES	(TONS) 41	41SSING DATA	444.F (ACRES)	ACRES)		ISSING DATA 444.F (ACRES)	
UNMARY TOT	SUMMARY TOTAL POTENTIAL GROADS AT 4007.7 2	SUMMARY TOTAL POTENTIAL GROSS FROSION 474607.7 235078.0	450126.9	497456.4	440334.6	128301.5	224018.5	156476.9	
PERCENT REDUCTION:	0.0 0.0	50.5	5.2	¥ •	7.2	73.0	52.3		

LAKE ERIE WASTEVATER MANASEMENT STUDY LAND MANAGEMENT ALTERMATIVES : REST MANASEMENT PRACTICE SCENARIUS

SASIN: MAUMEE RIVER	ICE RIVER	WATERS	WATERVILLF.OH	HUOT	COUNTY: 48 NOBLE. INDIANA	F. INDIANA			
Tand USE	ERISTING POF GROSS FROSION (TONS)	I.REDUCE SOIL LOSS TO T AND EXISTING (TONS)	SPRING PLOUING 5 OVLY (TONS) (TONS)	FALL PLOJING ONLY (TONS) (TONS/ACET	JINTER COVER CROP (TONS)			SOIL MGMT. BROUP LAND BREA (ACRES)	
STOPLAND 3	-I	4P215.1	205796.6 13.5	231870.4 15.2	204R65.4 13.4	28867.4	94943-1	19300.7	15300.7
CROPLAND 345	9629.3	3685.5	9172.7	10554.9	9131.2	1286.7	4233.5 3.2	1334.4	1156.5 8.1
CROPLAND S46 3	1662.1	1662.1	1583.3	1783.9	1576.1	1662.1	1662.1	•••	0.0
STOPLAND S46	5.65.2	5465.2	5206.1	5865.7 1.0	5182.5	2402.8	2402.9	5782.3	0.0
CROPLAND 346 5	3435.0	3435.0	3272.2	3686.7 I.6	3257.4	3435.0	3485.0	2312.9	0.0
CROPLAND S46 10	23931.2	1334.4	22796.6	25684.8 96.2	22693.4 55.0	3197.7 12.3	10521.5	266.9	266.9
J		63797.3	-1	279226.4 11.0	246706.0	4.051.7	117236.1	25442.0	1
VINEYARDS Avd orch.	4 84.0 4.64	266.9 (TONS) 89.8 (ACRES 3.80 (TONS)	) ACRE)	AATER AREA ONLY	177.9 (ACRES)	ACRES)			
314SSLAYD And pasture	280.5 1601.2	280.5 (TONS) 1601.2(ACRES) .18 (TONS)	ACRE)	)THER LAND JSE AREA	2490.4 (ACRES)	ACRES)			
430 DL AND	617.9 3024.6 .20	P)	CRED	VISSING DATA	6136.1 (ACRES)	ACRESI			
SUMMARY TOTAL POTENTIAL SI4697.4	SUMMARY TOTAL POTENTIAL 314697.4	- [ - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	299851.5 8.3	337641.3	298501.7 A-2	537641.3 298501.7 50748.0 142682.0	•	36294.9	
PERCENT REDUCTION:	0.0	75.1	•••	-1.3	5.1	A3.9	24.7		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINLERS. BUFFALO DESTRECT LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARICS

SASIN: NAUMEE RIVER	MEE RIVER	MATER	MATERVILLE, OM	COUNT	IV: 49 DEK	COUNTY: 49 DEKALB, INDIANA			
350 080-	ERISTING POT- GROSS EROSION (TONS) (TONS/ACRE)	LOSS TO T PLONING AND EXISTING ONLY (TONS) (TONS) (TONS)	SPRING PLOWING 5 ONLY (TOMS) (TOMS/ACRE)	FALL PLOUING DNLY (TONS) (TOYS/ACKE)	UINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW (TOMS)	SOIL MGMT. Stoup Land Atea (Acaes)	E4157146 531L 1385 5 T FACTOR (ACRES) (TONS/ACRE)
CROPLAND S43	146660.0		137996.9	25555.6 137998.9 154743.6 5.6 16.5 18.5	13684.1	136204.1 18476.9 61284.5 8362.9 16.4 2.2 7.3	61200.5	0.295	0.290
CROPLAND S46 2	257352.4	93652.7	242154.4	271557.2	240128.0	32422.4	107399.0	31313.2	30423.6
CROPLAND 345 3	3112.0	3112.0	2926.3	3265.6 4.6	2943.8	3112.0	3112.9	711.7	•••
CROPLAND SHG 4	6673.9	8673.9	8161.6 .8	3°2516	8.093.U	3619.8	3619.9	9696.4	• •
STOPLAND STS	1305.9	1305.9	1228.8	1.577.9	1218.5	1505.9	1365.3	1957.1	90
CAOPLAND	1		392472.0	44,094,3	389187.7	58937.0	176641.5	132097.5 392472.0 44.094.3 389187.7 58937.0 176641.3 52848.4 2.5 7.5 8.5	
JEVEYARDS And drcm.	 	0.0 (70NS) 0.0 (ACRES 0.00 (TONS)	ACRED	JATER Area only	1512.3 (ACRES)	ACRE S)			
GRASSLAND Avd pasture	409.7 2757.7	409.7 (TONS) 2757.7(ACRES) .15 (TONS/	ACRED	JTHER LAND JSE AREA	5337.5 (ACRES)	ACRESI			
ONV TOOOP	857.7 6493.9	6493.9 (ACRES)	13.9 (ACRES) 41 -13 (TONS/ACRE)	4 ISSING DATA	156219.9 (ACRES)	ACRESI			
SJAMARY TOT		GROSS - FROSION - 473261.1	1397239.8	1566224.1	1385576.0	213642.4	631330.9	ROSS EROSION 473261.1 1397239.8 1564224.1 1385576.0 213642.4 631338.9 217581.9 2.2 6.4 1.6 2.9	
PERCENT REDUCTION:	OUCTION: 0.0	68.1	5.9	*5.5	1.9	85.6	57.5		

LANE ERIE WASTEWATER MANAGEFRI STUDY
LAND MANAGERENI ALTERNATIVES : 25ST MANAGEMENT PRACTICE SCEWARIOS

BASIN: PAUMLE RIVER	MLE RIVER	BATERY	WATERVILLE.OM						•
. 440 USE	EXISTING POT-RE GROSS LO FROSION AND CTOMSON (T	TAREDUCE SOIL SPRING LOSS TO T PLOUIN AND EXISTENT DALY (TONS) (TONS)	OUCE SOIL SPRING SS TO T PLOWING P EXISTING ONLY INS) (TOYS) ONS/ACRE) (TOYS)	FALL PLIVING ONLY (TGUS) (TOVS/ACPE)	COVER CROP (TOVS) (TOVS) (TOVS)	MAKINUM REDUCTION TILLAGE (TOMS) (TOMS)	REDUCED TILLAGE: THISEL P.D.4 (TOMS)	REDUCED SJIL MGM1.   ILLAGE: 323J9 LAVD HISEL P_D4 AER (TONS) (ACRES)	EXISTING S)1L .055 > 7 FACTOR (ACRES) (TOVS/ACRE)
CROPLAND	73510-1	20323.7	-[	75466.E 12.5	69597.0 17062.2	1,062.2	20407.2	5349.1	5159.6
PLAND	6-9899.9 3-5	47897.4	65647.4	71760.3	56178.9 3.3	9568.0	24438.4 1.1	19926.5	10052.2
PLAND	71982.2	70138.4	67603.1	13898-1	6+150.5	71982.2	71982.2	23751.7	177.9
PLAND	6547.2	8547.2	P 527.2	8774.7	8092.2 1.0	3477.4	3477.4	R095.2	• •
PLANS	5766.3	3759.3	5415.5	5919.R 2.0	5459.4	5766.3	5766.3	2435.5	83.0 25.5
DLA NO	28424.9	28424.9	26695.6	29181.4	26911.8 1.1	11564.5	11564.5	24196.5	60
PLANO	62114.7	48540.9	58335.9	6376A.0 1.5	58608.2 1.4	62114.7	62114.7	41721.2	266.9 52.9
1.440	42R19.1 96.3	8.89.6 2.8	4.0214.1	43956.8 95.8	40539.8 91.1	5861.2 13.2	11420.7	en : .	10 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 ·
CLOPLAND	363064.4	228521.4	228521.4 340976.8 1.8 2.7	372727.7	343737.8	183396.5	230671.1	127120.5	
FIVEYARDS	900	0.00	(TGRS) 4 (ACRES) 4 (TONS/ACRF)	JATER Arfa Caly	5960,2 (ACRES)	ACRESI			
STASSLAND AND PASTURE	491.4 4536.8	491.4 (TOWS) 4536.8(ACRES) .11 (TOWS)	ACRE?	JTHER LAND JSE AREA	16724.1 (ACRES)	ACRES)			
JOODLAND	2169.3 21083.0	2769.3 ( 21083.0 (	(TONS) (ACRES)		ISSING DATA 87712.4 (ACRES)			[	]
THARY TO	3.144ARY TOTAL POTENTIAL 5.54699.2	SJUMARY TOTAL POTENTIAL GROSS EROSTON SA1918.5 SENDENT SA1918.5 SENDENT SA1918.5 2.9 1.5 2.5	541918.5		546265.2	123.8	369269.5	240452.3	
PERCENT PEDUCTION:	0.0	36.7	6.9	-2.5	5.3	49.9	35.1		

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U.S. ARMY CORPS OF ENGINEERS, BUTTALU DISIRIE	S
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STEER STEER	IIVES : BEST MANAGEMENT
SARAGERERY STUDY	INATIVES : BEST MARKGINELT
ER BARBELBERT STUDY	TERNATIVES : BEST MARADURELT
LATER MARAGEMENT STUDY	ALTERNATIVES : BEST MANAGEMENT
STENATER MARAGEMENT STUDY	ENT ALTERNATIVES I BEST HARASIMENT
CASTELATER BARBELBERT STUDY	GENERT ALTERNATIVES : BEST MANAGEMENT
ALE LASTELATER MANAGEMENT STUDY	ARBERRAT ALTERNATIVES & BEST MARKOUNELY
ERIC ARSTENATER MANAGEMENT STUDY	D MANAGEMENT ALTERNATIVES : BEST MANAGEMENT
LAKE EBIL BASSEBATER BARBELBERT STUDY	LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIUS

BASIY: MAUNEE RIVER	IEE RIVER	MATERI	MATERVILLE.OH	ואטכי	COUNTY: 52 ALLEN. INDIANA	AVAICKI +A			
LAND USE	EXISTING POL GROSS EROSION (TONS) (TONS/ACRE)	FRISTING POT.REDUCE SOIL SPRING FROSS LOSS TO T PLOWING FROSSION AND EXISTING ONLY TIONS/ACRE) (TOMS)	REDUCE SOIL SPRING LUSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS) (TONS/ACRE)	FALL PLOWING OALY (TOMS) (TOMS/ACRE)	COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED SOIL TILLAGE: GROUN CHISEL PLOW AYEA (TONS) (ACA)	SOIL MEMF. GROUP LAYD AYEA (ACAES)	E ISTN6 531 LOSS 5 7 FACTOR 1 ACRES (TOMS/ACRE)
CROPLAND S46 1	463993.1	-1	454880.7	504007.7	154680.7	61865.8	196509.3	196509.3 33359.2	
SAOPLAND S46	192167.4	182631.6	180627.2	200135.1	180627.2 2.6	24565.3	78033.3	61971.7	51239.7
CROPLAND SAG 3	14703.8	14703.8	13819.4	15311.9	13819.4	1+703.6	14703.9	5357.0	
SROPLAND	43920.8	43924.8	41279.0	45737.1	41279.3	17932.5	17932.5	45080.2	
CROPLAND S46 5	8850.1	8850.1	6317.8 1.3	9216.1	8317.8 1.3	4850.1 1.3	8650.1	6582.3	•••
SAOPLAND 343 B	62652.5	62652.5 1.3	58884.0	65245.4	58884.0	25437.9	25437.3	48215.2	
CROPLAND S46 10	35677.3	808.6 2.3	33531.3	37152.7	33551.3	4560.3 32.8	14485.5	355.8	
SESPLAND	841985.0	1372AVD 841985.0 455269.0 791359.4 2.2 3.9		976904.9	791359.4	157913.7	355849.0	976904.0 791359.4 157913.7 355849.0 203902.5	
VINEYARDS AVD ORCH.	246.4 177.9 1.35	240.4 (TONS) 177.9 (ACRES) 1.35 (TONS/A	CRE	AATER Area only	11119.7 (ACRES)	ACRES)			
JRASSLAND And Pasture	1516.5 28058.4	1516.5 (TONS) 18058.+(ACRES) .08 (TONS/	CRE	JTHER LAND JSE AREA	56310.3 (ACRES)	ACRESI			
433BLAND	2810.5 31313.1	2810.5 (TONS) 31313.1 (ACRES) .09 (TONS/A)	0.5 (TONS) 118 3.1 (ACRES) .09 (TONS/ACRE)	4 ISSING DATA	2312.9 (ACRES)	ACRESI		433DLAND 2210.5 2810.5 (TOWS) 41SSING DATA 2312.9 (ACRES) 31313.1 31313.1 4ACRES) .09 (TOWS/ACRE)	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SJRRARY TOTA	AL POTENTIAL 854280.7	SJMMARY TOTAL POTENTIAL GROSS EROSION SSARARY TOTAL BESARGE 7 464014.3	803172.H 3.1	889917.6	803172.6	163863.5	363706.7	255554.9	
PERCENT REDUCTION:	UCT ION: 0.0	1.5.7	9		0.0	80.8	57.4		

LARC LAIE WASTEAATER MANAGEMENT STULY U.S. ARMY CORPS OF ENGINEERS. PUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES : MEST MANAGEMENT PRACTICE SCENARIOS IN: MAUMEE RIVER MATERVILLE, DH COUNTY: 52 PAULDING, DNID

3451V: PAU	MAUMEE RIVER	E 11 E	MATERVILLE . 3H	พกออ	CCUNIVI SI BAULDING+ OMIO	OING + ONIO			
LAND USE	EVISTING POT SAOSS EMOSION (TONS)		SFRING PLONING PRIV (TONS)	FELL PLCWING JNLY (TONS) (TINS/ACPE)	A 0 0 0 0			22.2	EMESTING S) IL LOSS > T FACTOR (ACRES) (TOMS/ACRE)
S46 1	12544.0	2-1 1174-4 2-1 10-2		12743.9	12144.2	1,499.1 1.6	5297.3	1156.5	622.7
SY6 2	27703.4	27703.4	25937.4	28144.3 2.5	24,020.4	*1 **.1	11693.4	11396.5	000
S46 3	79873.4 3.0	72048.2	74781.9 2.8	81146.2 3.3	77327.6	3.0	19873.4	27043.2	1245.4 8.3
CROPLAND S46	12132.7	12132.7	11359.3	12326.9	11746.0	5123.6 .5	5123.8	10052.2	
346 546	35734.9 5.3	16014.2	33457.0 3.1	36304.4	34596.0	35734.9 3.3	35734.9 5.3	10674.9	889.6 25.2
CROPLAND 346 7	5+85.2	4738.9	6071.8	6548.5 3.2	6278.5 3.1	6485.2	5.85.2	2946.0	89.0 21.6
SASPLAND S46 R	52493.0	52443.0	49146.9	53329.5 1.2	50819.9 1.2	22168.3	22169.3	43955.5	•••
CAOPLAND SWG 9	128811.2	1247F7.1 1.2	129650.2	139864.0	12,105,6	124811.2	124811.2	103369.0	89.0 47.2
CROPLAND S46 10	40021.0 90.0	1156.5	37469.H 84.2	40658.8 91.4	38745.4	6059.0 13.6	16901.3 39.0	E .	E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TOPLAND	-1	313510.6	370568-6 1-8	*02106.2 1.9	383183.6 1.8	290349.0	312095.3	203220.9	
VINEYARDS AVD ORCH.	9.0	0.0 (TOWS) 0.0 (ACRES 0.00 (TOWS)	1045)	JATER AREA ONLY	7650.4 (ACRES)	ACRESI			
GRASSLAND And Pasture	189.9 4181.0	189.9 (TONS) AIRI.OCACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	21972.6 (ACRES)	ACRES)			
ON F TOOCP	1913.4	1913.4 (10VS) 17257.8 (ACRES) -11 (TONS/A	13.4 (1045) 415 57.8 (ACRES) •11 (TONS/ACRE)	4 ISSING DATA	622.7 (4CRES)	4CRES)		622.7 (4CRES)	
SJ#MARY TOT	NT1AL 76.3	680SS FR0S10N 316465.9	N 373677.9 1.5	405300.7	386327.0	293241.8	315095.5	231290.3	•
	0.0	20.7	ş; • 9	-1-6	3.2	26.5	21.0		

U.S. AKMY CORPS OF ENGINEERS. BUFFALO DISTRICT	CTICE SCENARIOS
u.S.	PRAC
LAKE ERIL MASTEWATER MANAGEMENT STUDY	LAND BABASEBERT ALTERNATIVES : BEST BARALIMENT PRACTICE SCENARIOS

	FK1571N6 521 LOSS 57 FACTOR (ACRES) (1008/ACRE)	[] 8-86-88 8-8	11772.1	26598.4	99	1957.1 17.6	0.0	0.0	1067.5 32.6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			•	
	MGMT. P LAND ES)	7116.5	36146.5	25598.1	30698.5	16592.2	0.69	39961.3	75703-1	329151.3 364200.6 234898.2 1.4 1.5 1.5				542294.2 483E60.8 348532.0 385559.5 263538.6 2.7 1.6 1.3 1.4
	& F O	18285-3	32393.5 6.9	100755.1	13981.0	57214.0	203.5	18862.2	122509.6	364200.6				385559.5
4M. 3410	MINTER MARINUM COVER REDUCTION COND TILLAGE (TONS) (TONS)ACRE)	9-68-55	3990.5 8.	100753.4	139#1.4	57214.0	200.6	18862.2	122509.6		ACRES)	ACRES)	ICRES)	344532.4
CCUNTY: 54 PUTNAM. 3410		42382.3	75086.4	94647.1	32405.6 1.1	53746.5	188.5	43/18.1	115084.7	457253.2	9343.6 (ACRES)	23158.7 (ACRES)	14411.2 (ACRES)	483x60.8 1.8
CCUM	FALL PLOJING ONLY (TONS)	47509.2	H4162.7	106096.3	36325.6	60248.1	211.3	49036.6	129006.3	512566.1 457253.2 2.2 1.5	AATER Area daly	JTHER LAND JSE ANFA		
WATERVILLE +OM	AEDUCE SOLL SPRING LOSS TO T PLOGING AND EXISTING ONLY (TONS) (TONS) (TONS/ACRE)	42724.1	75685.9	95410.4	32666.9	54180.0	190.0	44070.6	116012.9	460940.8	CRES	LCRE)	18.7 (TONS) 41S 77.4 (ACRES) .04 (TONS/ACRE)	*87756.5 1.8 5.3
WATERV	EXISTIME POT-MEDUCE SOIL SPRING BROSS FROSIN AND EXISTING ONLY (TOMS) (TOMS) (TOMS) (TOMS)	27469.0 42724.1	79224.4	19795.1	34446.3	26704.7	200.6	46538.6 1.2	89823.7	386252.4	0.0 (TONS) 0.0 (ACRES) 0.06 (TONS/A	249.4 (TONS) 6671.8(ACRES) .04 (TONS)	518.7 (TONS) 13877.4 (ACRES) .04 (TONS/A	JAHARY TOTAL POTENTIAL GROSS EASSION 515025.3 488954.5 487756.5 1.8 1.5 1.5 1.8 1.5 1.5 5.3
MAUMEE RIVER	EXISTING POT. GROSS ENOSION (TONS)	45116.7	19924.2	100753.4	34496.3 1.1	57214.0	2.5	46538.6 1.2	122509.6	486753.4	0 0 0	249.4 6671.8 .04	518.7	DOTENTIAL G 515025-3 1.9 110N:
SASIN: MAUNE		143PLAND 543PLAND 586 3	SAOPLAND 396	CROPLAND 546 3	C10PLAND 346	CROPLAND 343 5	CROPLAND SM6 7	CROPLAND 346 &	CROPLAND She 9	CAOPLAND	VINEYARDS And Grch.	STASSLAND AVD PASTURE	GOOLAND	\$J4MARY TOTAL POTENTIAL GROSS ERSION \$15025-3 408854-5 1-9 1-9 1-5 PERCENT REDUCTION: 0.0 20-6

SASIN: MAUREE RIVER	MEE RIVER	BATER	BATERVILLENDH	1001	COUNTY: SELEN 1401444	20 1 40 I 40		
LAND USE	EXISTING POS GROSS EROSION (TONS)	ENSTING POTAREDUCE SOIL SPRING GROSS LOSS TO T PLOWING ERGSION AND EYISTIN'S ONLY TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	REDUCE SOIL SPRING FALL LINTER HAXINUM REDUCED LOSS TO T PLOWING PLOUTING COVER REDUCTION TILLAGE: OULT CROP TILLAGE PLOWS (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS)	PLOUING ONLY (TONS)	KINTER COVER CROP (TOVS)	MAKINUM RFDUCTION TILLAGE (TONS)		SDIL MGHT. GROUP LAVO AREA (ACQES)
S46 4	93.4	93.4	93.4 93.4 A9.6 99.5 87.4 35.7 1.0 1.0 1.1 1.0 1.04	99.5	67.4	35.7	99.00	
STOPLAND	93.4	93.4	-f	99.5	87.4	35.7	35.7	
VINEYARDS AVD ORCH.	9 9 9	0000	0.0 (TOMS) JATER 0.0 (ACRES) AREA 0.00 (TOMS/ACRE)	AATER AREA ONLY	, , . o	0.0 (ACRES)		
STASSLAND AND PASTURE	49. 0.00.	6.8 (T345) 69.0(ACRES) .08 (TONS/	CRE)	THER LAND USE ARFA	9 0 0	0.0 (ACRES)		
JOODE AND	0.00	0000	0.0 (ACPES) 4IS 0.0 (ACPES) 0.00 (TONS/ACRE)	4ISSING DATA	13966.4 (ACRES)	ACRESI		
144ARY 101	AL POTENTIAL 7962.2	SJ44ARY TOTAL POTENTIAL GROSS EROSIDA 7962.2 7962.2 6	7668.2	8466.9	7485.4	3377.2	3377.2	JAMARY TOTAL POTENTIAL GROSS EROSIDW 7962-2 7962-2 7660-2 8046-9 7485-4 3377-2 3377-2 10100-0
PERCENT REDUCTION:	UCT I ON:	0.0	£. N	-6.1	9.9	57.6	57.5	

LAME EMIE LISTEMATER MAAGEMENT STUDY 1.5. ARMY CORFS OF ENGINEERS, BUFFALO DISTRICT LABO MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARICS

6 POT. R. DUCE SOIL SPRING FALL LOSS TO T PLO. NG PLO.	FALL	FALL	FALL PLOAING		COUNTY: 56 ADAMS, INDIANA MAKINUM COVER REDUCTION CAND TRAINER	MAKINGS MAKINGS AEDUCTION	REDUCED TILLAGE:		Ex157146 531 LOSS > T FACTOR
ERDSIDM AND EXISTIVE ONLY ONLY CROP (10MS) (10MS) (10MS) (10MS/ACRE) (10MS/ACR	AND EXISTING ONLY ONLY (TONS) (TONS) (TONS) (TONS) (TONS/ACRE)	VG DALY DALY (TONS) (TONS) (TONS/ACRE)	ONLY (TONS) (TONS/ACRE)			CROP TILLAGE (TONS) (TONS) (TONS/ACRE)	CHISEL PLD4 (1045) (1045/ACRE)	AREA (ACKES)	A FACTOR (ACRES) (108S/ACRE)
40211.0 11026.2 50133.7 42436.7 10.5 10.5	11826.2 38133.7 42456.7 3.0 9.5 10.5	38133.7 +2436.7	42436.7		57688.6 9.4	4896.5			3736.2
129179.1 72104.2 122565.6 136369.2 5.4 3.0 5.1 5.7	122565.6		136369.2		121 u75.6 5.ú	15730.3	51481.3	24107.5	2364), 7
517.6 517.6 490.9 546.3 2.9 2.9 2.8 3.1	8°2	5	546.3		485.2	517.6	517.5	117.9	
25464.1 25464.1 24148.7 26873.6 1.0 1.0 1.0 1.0	24148.7		26873.6		23866.8	10148.1	10148-1	25986.1	
2386.5 2386.5 2263.2 2518.5 1.5 1.5 1.4 1.5	2263.2		2518.5 1.5		2236.8	2386.5	2386.5	1601.2	• •
	12298.6 187542.1 20A704.3 2.0 3.4 3.8	187542.1 204704.3 3.4 3.8	204704.3	7	185353.0	33679.0	80558.3	54975.9	
0.0 0.0 (1)MS) JATER 0.0 0.0 (ACRES) AKEA ONLY 0.00 (10MS/ACRE)	0.0 (T)MS) dAIFR 6.0 (ACRES) 44EA ONLY 0.00 (TOMS/ACRE)	(T)NS) JATER (ACRES) AKEA ONLY (TONS/ACRE)	TER ER ONET		2135.0 (ACRES)	(ACRES)			
162.5 162.5 (TOMS) THER LAND 133.4 1339.4(ACRES) JSE AREA .12 (TOMS/ACRE)	ACRE)	ACRE)	HER LAND E AREA		6227.6 (ACRES)	(ACRES)			
265.0 265.0 (TOYS) 41551MG DATA 4803.7 4803.7 (ACRES) .36 (TOMS/ACRE)	265-0 (TONS) 41551WG DATA 4863-7 (ACRES) .06 (TONS/ACRE)	(TOVS) 41551NG DATA (ACRES) (TOMS/ACRF)	SSING DATA		100522.2 (ACRES)	ACRESI			9 9 0 0 0 0 0
SJAMARY TOTAL POTENTIAL GROSS EROSION 524MARY TOTAL POTENTIAL GROSS EROSION 524167-9 298141-5 497147-2 555118-3 491350 90203-9 214195-9 3-4 5-4 5-4 5-4 5-4 5-4 5-4 5-4 5-4 5-4 5	GROSS EROSION 298111.5 497147.2 553118.3 1.8 3.1 3.1	3.1 3.4 3.4 3.4	554118.3	•	49135.00 5.0	3. 6.50509		161636-2	
PEACENT REDUCTION: 0.0 43.1 5.2 -5.5	5.2		÷-5-		6.3	62.4	53.1		

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LAKE ERIE WASTEWATER MANAGERENT STURY
LAND MANAGERENT ALTERNATIVES : REST MANASZMENT PRACTICE SCENARIOS

34514: PAUNEE RIVER	EE RIVER	WATER	WATERVILLE. JH	COUNTY:		57 WAY 4ERT. OHIO			
:	KISTING P ROSS ROSION TONS/ACRE	LOSS TO T PLOUS AND EXISTING ONLY (TONS) (TONS)	EDUCE SOIL SPRING 055 TO T PLOWING ND EXISTING ONLY TONS) (TOLS)	FALL PLANING ONLY (TONS/ACRE)	LEVER CROVER CROSP (TONS)	MAKIMUM PEDUCTION TILLAGE (TONS) (TONS)	& FO - C -	COUCE) SJEL MGHT. ILLEGE: 310UP LAUD MISEL PLOW ATEA TOWS/ACTE)	FRISTING 501L LOSS 501L LOSS 501L LOSS 601L 601L 601L 601L 601L 601L 601L 601L
CAOPLAND S46	81860.0	21172.0	77654.A 12.0	95794.A 13.2	76533.5	9531.6	51396.1	6493.9	6493.9
233PLAND 546 2	278316.1	0.000000000000000000000000000000000000	264019+1	291650.0	260206.5	32406.7	106751.5	61925.7	58898.1
CROPLAND S46 3	154484. 0.4	11475.6 3.0	14654.7 3.A	16146.9	3443.2	0.4 0.4	15448.3	3925.2	3925.2
C4OPLAND 546	60672.A I.O	68672.8 1.0	57556.1	63581.H	56724.9	25271.8	23271.9	50947.2	0.0
CROPLAND S#3	8563.4 1.6	8563,4 1.6	8123.5	1.7	8006.2 1.5	#563.4 1.6	8563.4 1.5	5248.5	
CAOPLAND 546	84535.2	84535.2 1.4	80192.7	88588.3	79034.7 1.3	32424.5	32424.5	59245.3	0.0
CROPLAND 545 9	14154,7	14154.7	13427.5	14833.3	13233.6	14154.7	14154.7	19141.2	0 · 0
   copland	543550.5 2.6	165518-6	515628.4	569611.1	508182.5	135801.0	232012.0 1.1	207527.5	
VINEYARDS AND ORCH.	000	6.0 (1 6.0 (1	(TONS) WATER (ACRES) AREA (TONS/ACRF)	JATER Area only	6938.7 (ACRES)	ACRES)			
STASSLAND AND PASTURE	183.7 3291.4 .03	183.7 (1734S) 3291.4(ACRES) .83 (TONS)	ACRE)	JTHER LAND JSE AREA	19837.6 (ACRES)	ACRES)		,	
4330LAND	667.2 10763.9			TESTNG DATA	12721.0 (ACRES)	ACRESI	,	•	
SJAMARY TOTAL POTENTIAL STAMARY TOTAL POTENTIAL STAMES STAME PERCENT REDUCTION:	2.5		SS EROSION 546032.2 08456.2 546032.2 2.3	603112.7	538259.1	14408.9	246141.3 246141.3 37.2	538159.1 14408.9 246141.3 234463.9 6.5 74.9 57.2	
	3					•			

LAKE ERIE WASTEJATER MAMAREMENT STUDY U.S. AMPY COAPS OF EYSINEERS, FUFFALO DISTRICT Land Management alternatives: Best Management Practice Scenarius

3451N: MAUNEE AIVER	JHEE AIVER	WATERY	WATERVILLE, OM	COUNTY:		SE ALLEN. OMIO			
USE	EXISTING POT-9 GROSS EROSION (TONS) (TONS/ACRE)	67400	SPRING PLDAING G ONLY (TONS)	La	UINTER COVER CROVE (TONS)	MAXIMUM REDUCTION TILLAGE (TENS) (TONS/ACRE)	7 ^	SOIL MGMI. SADUP LAND AREA (AGRES)	E
SAG PLAND	40PLAMO 272725.7 16 1 12.2	71566.0 258+78.9	258+78.9	266972.6 12.8	260514.1	N.+06601 C.66646	•	22417.4	22150.5
CROPLAND 346	576762.2 6.3	269458.9	548471.4	696952.9	552790.1	73417.4	235208.2 2.5	91448.6	85577.4 6.7
210PLAND 546	54125.4	54125.4	51297.9	56952.h	51701.5	21811.7	21811.7	55132.4	0.0
CAOPLAND S46 5	4993.3 1.5	1.5	4732.8	5254.5 1.6	4770.1	1.5	4995-7	3380.4	0.0
SADPLAND S46 8	6972.0	6972.0	6607.9	7336.2	6659.8 1.2	2809.6 ••	2809.6	5693.3	
CROPLAND \$46 9	377.6	377.6	157.9	397.4	364.7	377.6	377.5	266.3	9.0
CAOPLAND 545 10	48176.9 108.3	4 + 4 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	45660.2	50693.6	46419.7 103.5	6112.0	19414.5	99 · •	444.8 106.3
CLOPLAND	1	+08822.0 2.3	915606.9	1016540.0	922n16.4 5.1	144121.5	392513.6	179783.8	
JIVEYARDS AVD ORCH.	26.9 89.0	26.9 (170NS) 89.0 (4CRES	) ACRE)	JATEH Arfa only	4073.7 (ACRES)	ACRES)			
SRASSLAND And Pasture	824.9 8.4501 3	824.9 (TOUS) 10674.9(ACRES) .DB (TONS)	ACRE)	JTHER LAND JSE AREA	30868.3 (ACRES)	ACRES)			
430DLAND	2165.1 21083.0		(TONS) 41: (ACRES) (TONS/ACRE)	41SSING DATA	8717.9 tacress	ACRESS			
TOL ARREDA	SJ\$MARY TOTAL POTENTIAL G 109911.0	GROSS FROSION 428804.2 956465.5 1.9 4.3	956465.5	1061556.5 961972.0 153199.6 411830.2 2	963972.6	153199.6	411630.2	220348.5	
PEREENI NEUDETIGNE	0.0	51.5	8.8	-5.2	Ş. <b>*</b>	£.	59.5		

LAKE ERIE MASTEJATEN MANAGENENT STUDY LAND MANAGEMENT ALTERNATIVES : OFST MANAGEMENT ORACTICE SCEMARIOS

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	•	5971.2	\$5155.4 6.8		96	<b>9</b> 0 <b>9</b>	000				•		
	\$1516 4646. \$1530 LAUD 1464 (4648.8)	48393.8 20104.5 4516.4 51717.5 46732.2 5454.0 21393.0 5471.2 8.2 3.4 7.9 8.4 8.0 1.2 3.6	59445	42977.7	2312.3	2046.3	1696.2	113243.3			•	055 FROSION 251272.9 47973.4 535606.4 484031.1 84632.4 225543.1 136856.9 1.9 5.7 4.1 5.7	
	#EDUCED \$31L 71LL452: 3405 CHISCL PLOW N4EA (TONS) (4CR	21393.0	169075.4	16293.2	3235.9	1294.3	2539.5	213927.5				225543.1	44.0
ER. OMIO	#197ER *EDUTION CROP TILLAGE (1095) (1095) (1095) (1095)	5454.0 1.2	54169.2	16293.2	3233.6	1294.8	2539.3	84384.3	ACRESI	ACRES)	ACRES)	69632.4	1 60
CCUNTY: 59 MERCER+ OHIO	WINTER CCUFR CROPS (TOYS)	46732.2 R.0	369335.2 6.3	35592.1	3122.7	2828.4	2452.1	509136:1 46062.7 84384.3 4.5 4.1 .7	4692.7 (ACRES)	8451.0 (ACRES)	6227.0 (ACRES)	-1-1-1 +8+091.1 3.7	
າທິວວ ຸ .	FALL PLO4145 ONLY (TONS/ACPE)	51717.5 81717.5	498751.J	373AP.5	3455.A 1.5	3130.2	2713.7	-1 509136.1 4.5	dater arfa only	JTHER LAND JSE AREA	MISSING DATA	535606.4	6.49
WATERVILLE.OM	SPRING PLONING CONLY (TONS)	-1	3&+052.2 6.3	35275.7	3995.0	2803.3 1.4	2430.3	455973.3	(TONS) 4A (ACRES) AR (TONS/ACRE)	ACRE)	(TONS) 41 (ACRES) (TONS/ACRE)	419787.4 5.7	1 - 0
WA TER	EXISTIVG POT.AEDUCE SOIL SPRING PROSEON AND EMISTING ONLY (1704S) (170NS) (170NS)	20104-5.	172678.3 3.0	36857.6	3233.4	2929.0	2539.3 1.5	476420.5 238342.5 455973.3 4.2 2.1 4.0	0.00	194.4 (TONS) 3558-3(ACRES) -05 (TONS)	788.4 ( 7826.3 (	251282.9	
E RIVER	EXISTING POT	48393.8 8.2	382467.0	36857.6	3233.8	2929.0	2534.3	476420.5	9 D 9	194.4 3558.3	7828.3	POTENTIAL 6 501256.2	1 0 1 L
BESTU: MAUNEE RIVER		1	220PLAND 596 2	340PLAND S46	CHOPLAND SY6	CROPLAND S43	C10PLAND 346 9	343PLAND	JEWEYANDS 140 ORCH.	31ASSLAND 143 PASTURE	WOODL AND	3.44ARY 7074L POTENTIAL GR 501256.2	FIREENT REDUCTION:

LAKE ERIE JASTEVATER MANAGEMENT STUDY Land Management alternatives : Gest Management Practice scenarius

LAND	LAND MANAGEMENT ALTERI								
100	mainar alven	WATER	WATERVILLE . JM	₹nc:	COUNTY: 63 AUGLAIZE, OHIO	A12E, 0H10			
	LXISTING POT-RE GROSS LO EROSTON AN	TAREDUCE SOIL SPRING LOSS TO T PLOUIN AND EXISTING ONLY	SPRING PLOBING G ONLY	FALL PLONING ONLY	ELNTER COVEN CROP	MAKIMUM AEDUCTION TILLAGE (10NS)	REDUCED TILLAGE: CHISEL PLOM (TONS)	SOIL MENT. GROUP LAVD AREA (ACRES)	EXISTING SOUL LOSS V T FACTOR CACATIST
	(TONS)	(TOVS)			(TOWS/ACRE)		(TONS/ACRE)	TOWS/ACRE)	(TO4S/ACRE) 
CROPLAND	137660.1	30245-7	-[	146796.8	134605.4	19491.7	61520.7	10008-1	10406.1
SROPLAND 2	2044	184906.6	195402.7	216016.7	199621.3	28948.6	91368.9 2.3	36550.6	\$3003.4 6.0
CHOPLAND	1563.C	1334.4	4.6	1666.H	1521.5	1563.0 3.5	1563.0 3.5	6. ++	E (I)
	1629	16252.4	15533.2	17351.0	15820.5	7263.2	7263.2	20549.3	8 d
CROPLAND	2815.4	2815.4	2690.9	3002.3	2740.7	2815.4	2815.4	2135.0	9 <b>0</b>
	50	2066.0	1974.5	2233.2	2011.2	2066.0	2066.0	1512.3	
TEROPLAND	36486.0	151614.5	348664.2	389018-8	589016.8 355121.0 5.4 5.0	62147.9	166597.1 2.5	71700-1	
JINEYARDS RMO ORCH.	999	0.00	0.0 (TONS) 4.0.0 (ACRES) 1.00 (TONS/ACRE)	AATER AREA DALY	2935.6 (ACRES)	(ACRES)			
SRASSLAND AND PASTURE	166-0 15 2757-7	166.0 (TONS) 2757.7(ACRES) .06 (TONS)	ACRE)	JTHER LAND JSE AREA	5515.4 (ACRES)	(ACRES)			
JOODL AND	864.9 7385.5	7361.9 (10NS) 7363.5 (ACRES)	13.5 (10NS) 4	864.9 (TONS) 41551NG DATA 7383.5 (ACRES) 12 (TONSACRE)	116089.7 (ACRES)	116089.7 (ACRES)		[	1
SJANARY TO	I	68055.ER0SION 383679.4	0N 845726.3	94532404	R61343.9	152796.2	405403.F 2.0	197931.0	
SEACENT REDUCTION:	ė	36.	:	9•9-	2.6	82.7	54.2		

LAKE ERIE WASTEWATEWATSPERT STUDY U.S. ARMY CORPS OF EVGINCERS. RUFFALO DISTASCY Land Vanagewert alternatives: Rest Management Practice scenarics

RASIN: MACHEE RIVER	MCE RIVER	MATERI	WATERVILLE.OM	MAGE	COUNTY: 62 SHFLING OHIO	PY+ 0H10			
350 DAST	EXISTING POT-R GROSS FROSIDN (TONS)	LOSS TO T PLOBING AND EXISTING ONLY (TONS) (TONS)	EDUCE SOIL SPRING 0SS TO T PLOMING VD ERISTIN'S DOLT TONS) TONS/ACRED (TOHS/ACRED)	FALL PLO-145 OULY (TONS)	UIVTER COVER CROP (T34S) (TQUS/ACRE)		REDUCED SOIL TILLAGE: STOU- CHISEL DIDA 47E4 (TONS) 18E3	AFINUM REDUCED SOIL MGMT. ECHICTION TILLAGE: 3100" LAVD TILLAGE: 3100" LAVD TONS: (TONS) (CONS) (CON	FR1571WG 531L LOSS > 7 FACT3R - ALRESS (1048/ACR5)
2439LANG 546	22415.6 6582.9 21519.3 9.7 2.8 9.3	6582.9	21519.3	24010.9	21917.9		10062.5	2512.3	2312.9
CROPLAND S46	+8670.2 7.9	18414.5	46516.7 7.6	51930.5 8.5	47374.1	6891.4	21758.9	63 58.1	6138-1
STOPLAND 4	265T-1	2857.7 R.	1947.5	2172.9	1993.5	3.016	913.5	2568.7	\$ 60 \$ 60
Cropland Sag 5	176.8	176.8	142.5	828.4 1.5	756.2	176.8	176.9	1201	## D
CROPLAND	74006.3 543	27833.7	10726.8	78911.8	72055.7	11766.8	33500.5	70726.0 78911.0 72035.7 11766.8 33500.5 11742.1 6.0 6.7 6.1 1.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FINEYARDS AND DRCH.	000	0.0 (10NS) 0.0 (ACRES 0.00 (10NS/	) ACRE?	JATER Srea Galy	553.7 (ACRES)	IACRES)			
SRASSLAND AVD PASTURE	17.9	17.9 (1085) 177.918CRESS	ACRED	JTHER LAND JSE AREA	555.7 IACRES)	iacre s)			
WOODLAND	258.9	258.9 (TOWS) 1698.2 (ACRES) .15 (TOWS/A)	18.9 (TOWS) "IN 18.2 (ACPES) 15 (TOWS/ACRE)	FISSING DATA	533.7 (ACRES)	(ACRES)		UGGOLAMO 258.9 228.9 (TOMS) 4 ISSING DATA 533.7 (ACRES) 1690.2 1690.2 (ACRES) 15 .15 (TOMS/ACRE)	
CT VEAMAL2	SJRWANY TOTAL POTENTIAL YT169.7	GROSS- E40513V 29189.9 2.1	73787.3	#2295.R 5.8	75148.8	12515.9	35101.9	14144.2	
PERCENT REGUCTION:	9-0	62.2	:	-6.5	2.5	A3.B	54.5		

LAKE ERIE WASTEWATER MAMAGEMINI STUDY U.S. ARMY COPPS OF ENGINEERS. BUFFALO DISTRICT Land Mamagement Alternatives: Best Mamagiment Practice Scewarics

	MONE ALVER								
TATO USE	e w	REDUCE SOLL LOSS TO T AND EXISTIN (TOMS)		FALL PLDUING ONLY (10NS) (TONS/ACKE)	30000	MAKIMUM REDUCTION TILLAGE (TOYS) (TOYS/ACRE)		HGHT. LAND S)	•
Ste 1	3247739.0	1115129.7	3080880.0	3422547.0	3098335.U	698335.0 433660.3 9.0 3.35	1382766.3	345199.0	248746.5
CAOPLAND SMG 2	3471857.0	2079033.9	3292563.0	3551917.0	3313161.0	8-5+0#5+	1444185.0 1.9	322057.3	526429.7
STOPLAND 3	505374.4 3.5	419884.8 2.9	477534.6 3.3	526911.1	9.00125.84 8.8	3.5374.4	505374.4 3.5	193491.5	8.5646.6
CROPLAND S46 4	475736.2	475736.2	4.048064	459346.2	451086.0 .9	194250.7	194253.7	500139.5	0.0
CROPLAND S46 S	207115.1	144848.5	195929.1	216646.6	197476.3	207113.1	207113.1	125167.6	3590.4
CAOPLAND S46 7	6685.8 3.1	4939.5	6261.7	6749•8 3•2	6466.9 3.0	65.95.8 3.1	6585.3 3.1	2155.3	89.0 21.6
CROPLAND S46 8	503811.0 1.2	503811.0	473396.6	522161.3	472718.1 1.2	£01387.1	200387.1	403720.0	0.0
SAOPLAND S46 9	354682.8 1.4	301090.7	334004.7 1.3	366830.9 1.5	337493.5	354682.8 1.4	354582.3	251083.3	1601.2
SAGPLAND SAG 10	319447.5 95.3	9452.6 2.8	301193.7 89.9	332300•1 99•2	304082-1	43296.0 12.9	132217.4 39.5	3351.0	3351.4 95.3
SADPLAND	-I	053926.9	B612400.6	9545460.0 3.1	8658574.E 3.3	2409607.0	4427602.3	2596745.3	[
VINEYARDS AND ORCH.	892.7 725.1 1.23	744.0 ( 725.1 () 1.03 ()	(TONS) 41 (ACKES) 46 (TONS/ACRE)	4ATER AREA ONLT	105637.1 (ACRES)	ACRES)			
STASSLAND AND PASTURE	7992.9 113768.0	7992.9 (13VS) 113679.1(ACHES) .07 (TONS/	ACRE	JTHER LAVD	323877.1 (ACRES)	ACRESI			
JODE AND	27489.6 282527.9			ISSING DATA	640253.1 (ACRES)	ACRES)			
JIMARY TOT	SLEERRY TOTAL POTENTIAL GR		0494421.3 2.9	11631126.4 10554476.1 2969CR5.1 541R653.0 5.2 3.9 2.9 .8	10554476.1	2369085.1	4	3634719.4	

LAKE ERIE WASTEWATER MAMAGERENT STUDY
LAND MAMAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCENARIOS

	EXISTING 5) I CLOS 7 FALTOR (ACRES) (1994/ACRE)	•	·			
	LAND USE EXISTING POT-REDUCE 5.01L SPRING FALL WINTER MAXIMUM REDUCED \$31L MGMT. GROSS LOSS TO T PLOWING PLOWER REDUCTION TILLAGE: G40JP LAND FROSION AND EXISTING DALY DALY CROP TILLAGE CHISTL P_34 A TEA (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (ACCES) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)					SJAWARY TOTAL POTENTIAL GROSS EROSION  SJAWARY TOTAL POTENTIAL GROSS EROSION  8.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	REDUCED SDIL MGMT. TILLAGE: G40JP LAYD CHISTL P_D4 A1E4 (TOWS) (TOWS/ACRE)			·		
24. 24f3	EDUCE 5.01L SPRING FALL WINTER MAXIMUM REDUCED 0SS TO T PLOWING PLOWING COVER REDUCTION TILLAGE: ND EXISTING DALY CROP TILLAGE CMISTL P_DA TONS) (TONS) (TONS) (TONS) (TONS) TONS/ACRE) (TONS/ACRE) (TONS/ACRE) TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	0.0	(CRES)	ICRES)	CRESI	00 0
COUNTY: 05 SEMECA. DHID	UINTER COVER CROP (TOWS) (TOWS/ACRE)	0.0	0.0 (ACRES)	111.2 (ACRES)	O.O (ACRES)	00 0
MUCO	FALL PLOUING JNLY (TONS) (TONS/ACRE)	0.0	JATER BREA ONLŸ B	JTHER LAND JSE AREA	415SIVG DATA	00 0
WJOJVILLE+74	SPRING PLOUING DVLV (TONS) (TONS/ACRE)	0.0	7 K	ACRE >	0.0 (TONS) 41S 0.0 (ACRES) 0.00 (TONS/ACRE)	00 0
I ACOCA	REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING DULY (TONS) (TONS)	0.0	0.0 (TONS) 0.0 (ACRES) 0.00 (TOUS/A)	0.0 (TONS) 0.014CRES) 0.00 (TONS/	0.0 (104S) 0.0 (ACRES) 0.00 (104S/	2000 C C C C C C C C C C C C C C C C C C
IGE RIVER	GROSS LOSS TO T PLOUING FROSTON AND EXISTING DALY (TONS) (TONS) (TONS/ARE) (TONS/ARE) (TONS/ARE) (TONS/ARE)	0.0	000		500	POTENTIAL G. 9.0
3451N: PORTAGE RIVER	LAND USE	1	VINEYARDS AVD ORCH.	SRASSLAND AND PASTURE	4300LAND	SJAGAT TOTAL POTENTIAL GR

LAKE ERJE WASTEWATER HAMAGEHENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT Land Hamagement alternatives : Pest Management Practice Scenarios

3451h: POA	BASIN: PORTAGE RIVER	A0007	HOODY ILLE , OM	400U	COUNTY: 06 SANDUSKY. OHIO	USKY. OHIO			
-140 USE		T.REDUCE SOIL SPRING LOSS TO T PLOUII AND EXISTING ONLY (TONS) (TONS)	EDUCE SJIL SPRING 0SS TO T PLOWING ND EXISTING ONLY TONS) (TONS)	FALL PLOWING ONLY (TONS)	LINTER COVER CROP (TONS)	UNTER MAKIMUM CONER REDUCTION CROP TILLAGE (TONS) (TONS)	& F U		F41ST146 S31L L0SS > 7 FACTOR (ACRES)
CROPLAND S46 1		1022.5 622.9 980.5 1087.4 8.5 8.5	900.5	5 .00 H	972.9	122.1	412-1	120.5	128.5
CROPLAND 345 2	2012.4	1898.u 2.6	1929.H 2.6	2140.1	1914.6	240.3	811.0	731.0	177.9
CROPLAND S46 3	5397.0	1 808. 3.0	5175.5 8.6	5739.4	5135.2 8.5	5397.0 9.0	5397.0	602.9	602.9
230PLAND SMG 5	106.8	106-4	102.4	113.5	101.6	106.8	106.8	79.1	00
CROPLAND S46 8	2624.5	2624.5	2516.7	2790.9	2497.2	1057.6	1057.6	2411.7	• • • • • • • • • • • • • • • • • • •
SAOPLAND	1	7041.0	10704.9	11871.3	10621.7	-1	7784.5	3953.5	
VINEYARDS And orch.	9 9 9	0000	(TONS) JA (ACRES) AR (TONS/ACRE)	AATER AREA ONLY	118.6 (ACRES)	4CRES)			
32ASSLAND And pasture	8 · 4 · 4 · 4 · 4 · 4 · 4 · 4 · 4 · 4 ·	14.8 (TONS) 464.6(ACRES) .03 (TONS)	ACRES	JTHER LAND USE AREA	434.9 (ACRES)	ACRESI			
4000LAND	26.2		ACRE)		0.0 (ACKES)	ICKES)			,
SJHHARY TOT		GROSS E	10745.9	11912.3	10662.7 6964.8 7925.5	6964.8	:	5100.2	
PERCENT REDUCTION:	0.0	36.8	7:	-6.3	*	37.8	30.2		

LAKE ERIE WASTEWATER MANAGEWENT STUGY U.S. ARPY EDRPS OF EUGIWEERS. PUFFALD DISTRICT Land management alternatives : Plat management practice scewarics

BASIN: POR	BASIN: POPTAGE RIVER	13002	HOOSYTLE .	POUNTY:	ď,	Bung. CHID:			
380 CAV	EXISTING POTOR GROSS L EROSION A (TONS) (	LOSS TO T PLOWING AND EVENTAGE FOR THE PRIST OF THE PRIST OF THE PRIST OF THE PRIST OF TONS AND THE PRIST OF T	EDUCE SJIL CPRING OSS TO T PLOWING NE EVISTING DMLY FONS) (TONS)	FALL DLOWINS ONLY (TOMS)	WINTER COVER CROVE (TOVS) CTONS/ACRT)	* ~ ·	# F U U U U .	EDUCED SOIL 4647. ILLAGE: 540JP LA4D MISEL PLOW AREA TONS) (ACRES)	E # 8 5 1 4 6 5 3 1 L . 3 5 5 5 3 F 2 C 1 3 F 6 A C R C 5 5 6 1 C 4 C R C 5 5
CROPLAND	31233.2	26790.3 3.3		29248.2 32441.6 29248.2 3.5 4.0. 3.6	2924A.2 3.6	5489.8 5.5	12479.1	1	F-59-5
STOPLAND 5	93667.9	69867.H	#5621.9 2.3	04321.2 2.5	A5021.9 2.3	11292.0	35203.3	37777.1	9335.2
CTOPLAND S4G 3	7138.6	3565.7 3.0	6694.1 5.6	7426.2 6.2	6.694.3 6.6	7138.6	7136.5	1186.6	1144.6
SAG 4	5232.2	5232.2	4956.4	5443.C 1.1	4936.4	2089.1	2063.1	•179.0	• •
CROPLAND S46 5	1.3	4267.0	4102.1 1.5	4558.7	4102.1	4374.5	4374.5	5251.9	154.1 1.6
CROPLAND S46	1.1	#9084.2 1.1	83536.9 1.0	92673.7	P3556.9	35568.5	35569.3	80323.3	9 6
1	1.000LAND 227750.6 198827.2	198827-2 1-5	213549.6	235906.4	213549.6	64352.5	97941.3	135391.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VINEYARDS AVD ORCH.	4 9 0 • 6 0	9 00 0	0.0 (TONS) JATER 0.0 (ACRES) AREA 0.00 (TOVS/ACRE)	JATER AREA ONLY	1403.6 (ACRES)	ACRES)			
SRASSLAND Avd Pasture	169.0 6256.7	169.0 (TONS) 6256.7(ACRES) .03 (TONS/	LCRE)	JTHER LAVO JSE AREA	6696.5 (ACRES)	ACRES)			
73001440	276.5 8198.9 .03	270.5 (TOVS) 8198.9 (ACRES) 605 (TOVS/A	10.5 (TOVS) +15 10.9 (ACRES) 003 (TOVS/ACRE)	415SING DATA	2955.4 (ACRES)	ACRES)	9 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SJUMARY TOTAL POTE 2326 2526 STREENT REDUCTION:	SJAWARY TOTAL POTENTIAL SJEATA STATEMENT STATEMENT STATEMENT STATEMENT REDUCTION:	6055 EROSION 203196.8 1.3	SJAMARY TOTAL POTENTIAL GROSS EROSION 232670.3 203196.8 219209.6 242027.0 218209.6 66069.9 232670.3 203196.8 1.4 1.6 232670.3 1.3 1.3 1.4 1.6 252027.0 6.2 71.6	242027.0	218209.6	66069.9	100219.9	152902.3	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIUS

MSIN: POR	BASIN: PORTAGE AIVER	A 0007	400DV1LLE+0H	KNOO	COUNTY: 10 HANG	10 HANCOCK 9 3HIO			
LAND USE	EXISTING POT GROSS EROSION (TONS) (TONS)		SPRING PLONIRG CONLY (TONS)	FALL DNING ONLY 170NS)	300	MAKIMUM REDUCTION TILLAGE (TONS)		EDUCED SD1L MGMT. 11LLGE: G10JP LAND MISEL P.J4 41EA TONS) (4C725)	FUISTING SOIL LOSS > U FACTOR (ACRES) (TOMS/ACRE)
CROPLAND SM6 1	75910.2	17044.9 71613.4 3.6 15.0	11613.4	18774.7	72186.2	-4		0.00.	4774-1
CROPLAND S46 2	172760-1	93673.0	162924.6	179217-1	164228.0	22157.8	69731.7	31509.7	28386.4
CROPLAND SM6 5	658.6	29.00 30.00 30.00	613.8	6.8 6.8	618.7	9.059	658.6	99.9	9.96
CROPLAND 846	12775.5	12775.5	12052.4	13257.6	12148.8	5158.4 5.3	5158.4	15508+3	• • •
CROPLAND 346 5	1268.7	1268.7	1196.9	1316.5	1206.4	1268.7	1269.7	1.616	99
CROPLAND SMG B	24819.1	24819-1	23414.2	25755.6	23601.5	10021.3	10021.3	20885.3	
CLOPLAND		149677.7 271815.3 2.0 3.7	271815.3	298996.7	273989.6 5.7	273989.6 48996.2 117481.2 5.7 .1 .1 .6	•	73765.8	•
VINEYARDS AVD DRCH.	999	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(TONS) JA (ACRES) ARI (TONS/ACRE)	JATER AREA ONLY	622.7 (ACRES)	ACRES)			
GRASSLAND Nyd pasture	131.2 2332.7	131.2 (TONS) 2332.7(ACRES) .06 (TONS)	ACRE)	OTHER LAND JSE AREA	3604.8 (ACRES)	ACRESI			
4000FAND		433.8 (TONS) 5574.7 (ACRES	3.8 (TONS) 41: 4.7 (ACRES) .08 (TONS/ACRE)	ISSING DATA	4966.6 (ACRES)	ACRES)			9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JHHARY TO	NT I AL 45.3 3.5	-1	288944.b	317779.0	291251.1	52575.2	125225.0	GROSS EROSION 129591.6 288944.6 317779.0 291251.1 52575.2 125225.0 R5640.0	
>ERCENT REDUCTION:	0.0	41.9	5.6	- 3. y	5.4	. 85	59.1		

LAKE ERJE WASTEWATER MANAGEMENT STUDY USA ARMY CORPS OF EVSIMETRS, PUFFALS DISTRICT LAND MANASEMENT ALTERNATIVES : PEST MANASEMENT PRACTICE SCESMANDS

	EAISTING SOIL LOSS > T FACTOR (ACRES)	4 · + 11 · 11 · 11 · 11 · 11 · 11 · 11 ·	4.0187K	1990.4 7.0	00	154.1	00				0 0 0 0 0 0 0 0 0	•	
	• •	12342.3	71118.5	1940.4	21287.3	+210.7	103630.9	213120.7				••	
	REDUCED TILLAGE: CHISEL P. 34 (TONS)	######################################	106744.1	13185.2	7247.5	5749.3	46651.0	223111.0				232255.5	57.6
IN RESIN			33698.0	13186.2	7247.5	5749.9	46651.0	120276.0	ICRESI	ACRES)	ICRES)	125705.2	17.0
COUNTY: 62 ALL IN RESIN	COVER COVER CROP (TOVS)	102447.4	251164.7 3.6	12448.0	17055.2	5420-2	109643.4	498168.8	2144.9 (ACRES)	19247.4 (ACRES)	8549.8 (ACRES)	517251.9	5.5
MOO			275678.4 3.9	13840.9	1,4700.7	59R0.R 1.4	121229.0	547783.4	JATER Area only	JTHER LAND JSE AREA	730.6 (104S) 11SSING DATA 85.9.8 (ACRES) 14455.6 (ACRES) .05 (INS/ACRE)	56R659.1 2.3	-3.9
4001111E • 0H	REDUCE SOIL SPRING LOSS TO T PLOJING AND EVISING ONLY (TONS) (TONS) (TONS)	444361 101892-1 112353-7 3-4 7-8 7-8 8-7	249976.4 3.6	12483.3	16958.8 .8	5461.3	109475.6	496077.5 2.3	0.0 (TONS) JATER 0.0 (ACRES) AREA 0.00 (TONS/ACRE)	ICRE)	15.6 (134S) 41S 5.6 (ACRES) .05 (TONS/ACRE)	515085.0	0. 4.9
Augun			165438.7	5671.1 3.0	1.10011.7	5662.4	116536.0	355754.0	0.0 0.0 4) 00.6	515.1 (TONS) 9053.9(ACRES) .03 (TONS/			32.4
4SE RIVER	EXISTING POTAREDUCE SAIL GROSS LASS TO T EROSION AND EVISTING (TOMS) (TOMS/ACRE) (TOMS/ACRE)	-1	265380.4 3.8	13186.2	18007.7	5749.9	116536.0	-1	000	315.1 9053.9 .03	730.6 14455.6	NT 1AL 51.7 2.2	0.0
SASIN: PORTASE RIVER	3 3SO OSE	CAUPLAND SAG 1	S43 2	CROPLAND 346	346 4	CROPLAND 346 5	CASPLAND	CAOPLAND	JI VEYARDS AVD ORCH.	SRASSLAND AND PASTURE	OWAJOOCA	SJ44ARY TOTAL POTENTIAL G 547151-7 2-2	

LAKE ERIE HASTEMATER MAMAGEMENT STUDY Land mamagement altermatives: Best management practice scenarios

	E4187146 531L LOSS 3 T FACTOR 1 AGRES) (TOWS/AGRE)	27376.0	55176.1	155.7	9 6	99	432.4				•	
	SOIL MENT. SROUP LAND AREA FACTES	27376.9	61072.7	10897.3	25360.5	4791.5	132.1	150541.5			•	SS EROSION. 20400.1 614201.9 683674.4 624490.7 121189.1 294492.2 181797.9 2.3 5.4 5.4 5.7 4.6 -6.2 2.5 81.2 59.2
	REDUCES TILLAGE: CMISEL PLOM (70MS)	32233.2 96595.4 1.2 5659	136059.7	19143.9	9037.3	4929.9	10742.2	278508-2				294492.2
DZ CRAWFORD. OMIO		_		19143.8	9037.3	4929.8 1.0	3511.9	593403.3 113337.1 276508.2 3.9 .8 1.9	ACRES)	ACRES)	ACRES)	121189.1
COUNTY: B2 CRAN	10000.	220891.6	504626.3 8.8	14385.4	26247.1	+786.1 1.0	55.7	593403.3	2308.0 (ACRES)	9162.6 (ACRES)	A550.1 (ACRES)	624490.7 3.4 2.5
unc u	44 00.	241748.6	333608.2 4.1	2.540.3	22158.8	5236.0	26339.0 60.9	649432.9	JATER Area only	JTHËR LAND JSE AREA	41SSING DATA	
FRE 4011 . OH	<i>"</i> " " " " " " " " " " " " " " " " " " "	217099.7	299593.2	18266.4	19699.5 .8	4763.9 1.0	23653.4	98508.1 583216.1 2.6 3.3	(TONS) JA (ACRES) AR (Tons/Acre)	ACRT.	(TONS) 41 (ACKES) (TONS/ACRF)	N 814201.4
FRE40	-REDUCE SOIL SPRING LOSS TO T PLOUIS AND EXISTING ONLY (TONS) (TONS)	127095.9	225478.7	16175.9	20855.4	1929.8 1.0	1974.4	398508.1 2.6	25.05 2.05 2.05 2.05 2.05 2.05	375.3 (TONS) +455.3(ACKES) • 06 (TONS)	1764.2 (18216.6 (	64055 ER0SION 420400-1 2-3 34-7
SANDUSKY RIVER	EXISTING POTORE GROSS LO EROSION AN (TONS) (T	10PLAND 227526.1 1	313984.2	19143.8	20855.4	1929.8 1.0	24789.6		20 4 20 4 20 4 20 4 20 4 20 4 20 4 20 4	375.3 4455.3	1764.2 18216.6	NTIAL 96.0
SASIN: SAND	380 084	246 1	STOPLAND STG 2	CAOPLAND S46	SASPLAND SMG 4	CAOPLAND S46	SM6 10	SAOPLAND	JINEYARDS AUD ORCH.	STASSLAND AND PASTURE	JOODLAND	SJAMKAY TOTAL POTE SJAMKAY TOTAL POTE 6435

LAKE ERIE WASTEWATER MAUARERENT STUPY U.S. ARMY CORPS OF FUGINCERS. BUFFALD DISTRICT LAND MANAGEMENT ALTERNATIVES : 92ST MANASZMENT PRACTICE SCEMARICS

	EXISTING POT GROSS FROSION 470NS) (TONS/ACRE)	E _ <	N &	FALL PLOWING JYLY (TONS) (TONS/ACPE)	PRING FALL WINTER MAKINUM TEDUCES LOWING PLONING CONFR REDUCTLY TILLAGE: DALY SALE CHONES TONS) (TONS) (TONS) (TONS) TONS) (TONS) (TONS) (TONS)	UNITER MAXIMUM REDUCES COVER REDUCTION TILLAGE CASP TILLAGE CHISCL P.D.4 (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	78 40 1	3331L M 3333P A3EA (ACRES	FKIST: W6 531L LOSS > T FACTOR (ACRES) (1045/ACR!)
240PLAND 546	R9557.3 6.9	45207.7		96359.1	н9557.3 6.9	13225.8	1	5.1	
CROPLAND S45	345769.2	279724.7	32H262.0	372030.2 3.9	345769.2	51063.0	1531AB.9 1.5	94233.5	64447.5
CROPLAND 546 3	22613.8 1.6	22613.8 1.6	21468.A 1.5	24331.5 1.7	22613.8 1.6 1.6	22513.8	22613.8 1.5	14295.0	0.0
SAG 4	20905.3	20905-3	19846.8	22493.1	23905.3	9261.9	9261.3	22466.9	000
CROPLAND S46 5	3400.7	3400.7	3228.5	3659.9 1.1	5490.7 1.0	3490.7	3+00.7	3434.8	000
CROPLAND S43 B	350.3 1.0	350.3	332-6	377.0	350.3 1.0	155.2	155.2	345.3	0.0
CROPLAND S46 10	119.9	1687.3	40497.2	.45896.A	42657.1 119.9	6299.6	18898.7	355.8	355.A 119.9
1	-1	3732A9*8 2.5	498658.6 3.4	-1	525253.7 3.5	105020.0	247195.5	149136.9	II
WINEYARDS And orch.	83.9 61.8 8.36	83.9 ( 61.8 ( 1,36 (	(TONS) JAN (ACRES) ARE (TONS/ACRE)	JATER Area only	3039.4 (ACRES)	4CRES)			
STASSLAND LVD PASTURE	219.4 3348.3	219.4 (10NS) 3348.3(ACRES) 007 (TONS/	ACREI	JTHER LAVD JSE AREA	10796.0 (ACRES)	ACRESI			
400DLAND	2165.4	2165.4 ( 18053.5 (		MISSING DATA	77783.6 (ACRES)	ACRES)			
Y 101 A	NT 1AL 50.9	GROSS EROSION 548091.9	730958.5	827939.6	827939.6 769758.9 158240.7 3.3 3.1 6.6	158244.7	364169.7	247384.1	
F 7 5	STRUCKII NEGOCIION:	28⋅₩	5.0	-7.6	0.0	74.4	52.1		

	MAR 79	F ENGINEERS NAGEMENT ALT	ERNATIVES	IN THE	LAKE E	RIE DRA	INAGE E		
UNCLASSIFIED			_					N	 
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LAKE CRIE LASTEMATER MANAGERENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT Land Hamagement alternatives : Best Hamagement Practice Scenarios

345 141 54	BASIN: SANDUSKY RIVER	FRENO	FREMONT.ON	COUNTY:	TY: 04 HURON, OHIO	N. 0H10			
JSD ONT	EXISTING POGENOSS EROSION (TONS)		NEDUCE SOIL SPRING LOSS TO 7 PLOSING AND EXISTING ONLY (TONS) (TONS)	FALL PLOWING JULY (TONS) (TONS/ACRE)	30044.	IE	~~~~~	SOIL MEMT. BADUP LAND AREA (ACRES)	EXISTING 5314 LOSS 57 FACTOR (ACRES) (1008/ACRE)
S46 1	120PLAND 6463.2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.0	6182.2	894.1	2707.3	i	677.1
SAOPLAND	11716.3	19502.0	11160.6	12272.0 3.5	11206.9	1620.8	1.000	3+9+.1	3494.1
SASPLAND 3	95.1	2.5	96.5	49.6 2.5	96.5	95.1	95.2	39.5	9.9
CROPLAND SRG 4	1746.0	1746.0	1663.2	1626. H	1670.1	733.5	731.5	1255.3	••
STOPLAND .	1540.5	1546.5	1467.5	1613.6	1473.5	1540.5	1540.5	1690.2	
CLOPLAND	1		17262.7 20538.4 22563.7 20623.6 4682.0 2.4 2.9 3.2 2.9 .7	22563.7	20623.6	4882.0	9983.3	9983.3 7156.2 1.4	
VINEYARDS ALD DRCH.	\$ 6 9 \$ 6 9	900	6.0 (TOMS) JAI 8.0 (ACRES) 1R5 0.00 (TOMS/ACRE)	JATER IREA ONLY	197.7 (ACRES)	ACRES)			
S4ASSLAND And Pasture	2.5	2.5 (TONS) 79.1(ACRES) .03 (TONS)	ACRE)	JTHER LAND JSE AREA	1779.2 (ACRES)	ACRE S)			
MOODL AND	3.2.6 6.0.6 6.0.6		12.6 (TONS) 415 18.6 (ACRES) .07 (TONS/ACRE)	415SING DATA	49.4 (ACRES)	ACRES)			
SJAHARY TO	HT I AL 49.1	- 3	20720.1	22774.0	20805.A 2.6	5.1964	10100.5	1055 ER3513V 17426.3 20720.1 2277H.0 20805.A 4967.5 10100.5 8085.3 2.2 2.6 2.4 2.4	
PERCENT REDUCTIONS	DUCT10N1	19.9	1.1	1.4.		77.2	53.5		

LAKE ERIE HASTEMATER MANAGEMENT STUDY U.S. BRMY CORPS OF ENGINEERS. PUFFALD DISTRICT Land management altepvatives : Pist Management practice scevaring

SAUDUSKY RIVER	¥ 4		2"	TAINICE		06 SETTINS 4V+ JMT0			
GROSS LOSS TO FROM TO	LOSS LOSS AND E (TONS	EDUCE SOLL OSS TO T NO EXISTING TONS)	SPRING PLOSING C10'1S) C10'1S)	FALL PLOMING ONLY (TONS) (TONS/ACRE)	COVER CROP (TOYS)	MAKINUM REDUCTION TILLAGE (TOVS)		\$31L M6MT. \$13UP LAVN 44EA (4CPES)	F# 1517 NG 531L E055 5 7 F#CTOR (40765)
11406.7 5567.3	i ir.	5567.3 4.5	10956.5	12130.5	19455.4	1362.0	1.9654	1230.5	1230.6
11305.0 11	=	11260.1	10+40	12622.1	1:756.6	1349.A	4555.7	4694.2	163.1
6237.5 9.0	N	3.0	5941.5	6633.2 9.3	5935.0 8.5	6237.5	6237.5	696.8	8.00 8.00 8.00
193.7		193.7	184.7	206.0	194 . U	78.0	75.0	1.7.1	
403.7		*03.7	597.1	1.4	194e1 103	1.4	105.7	299.0	000
2302.9	•	2302.9	2208.4	2449.0	2191.2	928.1	928.1	2115.2	
		21758.2	-I	33869.9 2.6	30304.6	1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	16799.7	13133.6	
000 ••0 ••0		0000	(TONS) JATER (ACRES) 1REA (TONS/ACRE)	JATER IREA JULY	291.6 (ACRES)	ACRES)			
38.5 721.5 .05		38.5 (TONS) 721.5(ACRES) .05 (TONS/	CRÉ)	JTHER LAND JSE AREA	766.0 (ACRES)	ACRES)			
WOODLAND 59.3 1015.6		59.3 (TONS) 1015.6 (ACRES) .06 (TONS/A	19.3 (TONS) 415 5.6 (ACRES) .06 (TONS/ACRE)	WISSING DATA	187.8 (ACRES)	ACRES)	•	,	
		22132.0 1.5	31026.8	34396.7	30786.3	10589.0	17110.9	22132.0 31026.0 34396.7 36786.3 10589.0 17110.9 15858.5 2.0 1.5 2.1 2.3 2.0 7 1.1	
0.0		31.6		-6.3		67.3	47.1		

LAKE ERIE MASTEMATER MAMAGEMENT STUDV Lamd mamagement altermatives ; Dest Managing'ht practice scematigs

BAS IN:	SANDUSKY RIVER	NER.	FREMONT.OM	KT.0H	COUN	COUNTY: 10 HANCOCK+ ONTO	.0CK+ 0H10			
1440 USE		EXISTIM6 POT.RE GROSS LO EROSIOM ANI (TOMS) (7)	EDUCE SOIL SPRING OSS TO T PLOUIS ND EXISTING ONLY TONS) (TONS) (TONS)	SPRING PLONING ONLY (TONS/ACRE	FALL PLOWING 34LY (TONS)	100,000	MAXINUM REDUCTION TILLAGE (TOMS)	~ - L)	_	24151106 531 LOSS 5 T FACTOR (ACRES) (TOMS/ACAE)
CAOPLAND S46	١ ~	512.3	512.3 2.3 2.5	983.3	531.6	7	487.2 65.7 2.2 5.5	6.902	219.9	<b>9.0</b>
313PLAND 346	<b>40</b>	26.4	36.1	24.9	27.4	25.1	<b>~ • • •</b>	10.1	22.2	• •
SROPLAND		530.7	538.7	38.7 508.2 2.2 2.1	559.0	512.3	76.4	-11- \$17.5	559.0 512.3 76.4 217.5 242.1 2.3 2.3 2.1 .3	
JINEYARDS And ORCH.	-	0 <b>9</b> 0	0.0 (TOMS) 0.6 (ACRES 0.00 (TOMS/	) ACRE)	dater Grea ovly	<b>D</b>	0.0 (ACRES)			
34ASSLAND And Pasture		 	6.6 (TUNS) 6.0(ACRES) 8.00 (TONS)	ACRE	JTHER LAND JSE AREA	22.2 (ACRES)	ACRES)			
4000LAND		39.5	1.7 (TOMS) 39.5 (ACRES) .04 (TOMS/A	9-5. (ACRES) 41 -64 (TONS/ACRE)	41SSING DATA	0.0	0.0 (ACRES)			
SJAMART	SJAMARY TOTAL POTENTIAL 68	540.4 540.4 1.9	685 EROSIOR 548.4 144	509.3	560.1	514.0		219.3	SJAMARY TOTAL POTENTIAL GROSS ENOSION 5JAMARY TOTAL POTENTIAL GROSS ENOSION 540.4 550.7 514.0 70.1 219.3 201.6 1.9 1.6 2.0 1.6 .3 .3	
PERCENT	PERCENT REDUCTION:	:	•	9.6	æ • Ø ·	6.6	85.5	59.4		

LAKE ERIE UASTEUATER MANAGEWIYT STUDY U.S. ARWY CORPS OF ENGINCERS. BUFFALO DISTRICT Land management altermatives : Rest Management practice scemarins

	ETISTING 5)1L LOSS > T FACTOR (ACRES) (TONS/ACRE)	22723.7	5 7 1 50 . 9 6 . 1	3911.7	• • • • •	311.4	90	<b>9</b> 0	1116.9 186.A						
	5316 46MT. 313U2 LAUD A4EA (4C4ES)	22725.7	41345.3	3956.2	25190.5	9273.1	554.9	5055.9	1116.9	112917.0				229735.6	
	TILLAGE: CHISEL PLOW (TOMS)	116469.4	10667.5	12668.9	10047.9	12405.9	330.9	5815.6 1.1	49552.0	277967.9			,	504205.5	55.3
LTANDOT. BHEN	4ESJETTON TILLAGE (TONS)	7.44.78	22901.6	12660.8	10067.8	12405.9	3.30 e.	5813.6	16058.5	117983.7	(ACRES)	ICRES)	ICRES)	E40513V 355.2 104414.9 1206837.3 1103062.7 215765.4 504205.5 2 2.1 4.8 5.3 4.8 .8	9.0
Ξ	WINTER COVER CROF (TONS)	273919.0	166199.8	12768.6	23677.9	12119.6	778-5	5679.4	116538.9	611281.2	4141.5	10212.A (ACRES)	101868.P (ACRES)	1103062.7	2.3
Crumty:	FALL ONLY (TONS)	-I	141903.7	13537.3	25915.2 1.0	13264.7	851.5 1.3	6216.1	127550.5	5.9040.2	JATER SREA ONLY	JTHER LAND JSE AREA	MISSING DATA	1206837.0	-4.9
H J. TH	G Segev	A2219.1 271762.1 3.6 12.0	164#91.1 3.7	12271.3	23401.5	12024.2	771.0	5634.7	115621.2	1	(TCNS) JATER (ACRES) AREA (TONS/ACRE)	ACRE)	(TONS) 415 (ACRES) (TONS/ACRE)	109414.9	3.1
HJ-1NGH1H1			130185.3	11820.1	24237.3	11013.0	796.4	5,613.6	3617.6	697 92.4	151.9 (T 66.7 (A 2.26 (T	422.1 (TONS) 3466.9(ACRES) -12 (TONS/	2 2	1 8 5	26.7
SANDUSKY RIVER	GROSS L. EROSION A LITONS) (TONS/ACRE) (	280389.6 1 12.3	170125.9 3.8	12660.A 3.2	24237.3	12405.9	196.4	5813.6 1.1	119291.8 106.8	625721.3 5.5	161.2 66.7 2.42	422.1 3466.9 .12	2040.8 11416.2	POTENTIAL G 1129086-9 1100:	•
SASIN: SANDL		CROPLAND SPG 1	CROPLAND S43	CROPLANO 346 3	CROPLAND S46	CROPLAND S4S	CROPLAND S46 8	S43	CROPLAND S46 10	CROPLAND 625721.5 2 5.5	WINEYARDS AVJ JRCH.	SRASSLAND And Pasture	230014110	314427 TOTAL POTENTIAL GAO 1129006.9 • 2ERCENT REDUCTION:	

LAKE ERIE MASTENATER MAMAGENENT STUDY U.S. ARMY CORPS OF ENGINCERS. BUFFALD DISTRICT Land Management Alternatives : Rest Manacipent Practice Scenarius

SAS SKIRE	BASIN: SANDUSKY AIVER	FREGORTOOM	WT.0H	COUNTRE		12 HARDING OHIO			
LAND USE	EX1571NG POT-R 6A055 ER0510N (170NS) (170NS)	EDUCE SOIL 0S\$ TO T ND EXISTIN TONS)		FALL PLONING ONLY (TONS) (TONS/ACRE)	LINTER COVER CROP (TONS)	MAKINUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	EDUCED ILLAGE: HISEL PLOU TOWS)	SOIL MGMI. GAOUP LAND AICA (ACKES)	ERISTIME \$231 LOSS \$7 FACTOR (1048/ACRES)
CROPLAND SMG 1	13726.9	-I	13176.6	16532.2	13230.8 9.6	15230-6 1789-4 15230-6 1789-4	5882.3	•	1223.
SAGPLAND 346 2	26764.8	16512.4	25726.1	26372.H	25832.0 3.6	5.995.7	11329.3	7161.1	2513.1
CROPLAND SR6 3	668.0	668.0	641.6	707.6	644.2	668.0	669.3 2.3	289.1	•••
STOPLAND			3922.9	4326.4	5939.a	1727.4	1727.0	5204.0	•••
CROPLAND SHG 5	399.2	399.2	4.888 8.4	422.8 1.5	385.6	399.2	393.2	289.1	• •
210PLAND 346 &	4.64	.69	8. 8.	7.8.7	67.1	29.1	29.4	0.64	•••
STOPLAND 9	73.1	73.1	78.3	17.5	10.5	73.1	73-1	1.99	e a
TROPLAND		-1	43987.7	+6513.0 3.4	44168.6	8180.2	20027.1	14477.9	
VINEYARDS And orch.	0 0 0 6 0 0	000	(TCNS) JA (ACRES) AR (TONS/ACRE)	AATER AREA ONLY	355.8 (ACRES)	ACRES)			
STASSLAND And pasture	10.5 177.9	10.5 (TUNS) 177.9(ACKES)	ACRTI	THER LAND JSE AREA	845.1 (ACRES)	ACRESI			
GNETOGEF	51.6 1023.0	51.6	, dear	41SSING DATA	11875.9 (ACRES)	ACRESI	•		
SJYMARY TO	JAMARY TOTAL POTENTIAL GROSS BOSSES 2.9 2.9	ERUSI 599.3 1.6	77415.5		77753.4	14465.5	35305.3	65368.5 27233.4 14485.5 35385.9 27554.5 5.1 2.8 5.1 1.5	
PERCENT REDUCTION:	DUCTION: 0.0	1.11	3.5	-5.9	5.6	#2.0	56.2		

LAKF ERIE JASTEJATER VANAREWENT STUDY U.S. ARMY CORPS OF FIGURERS. POFFALO DISTRICT Land Hamagement alternatives : Pest management practice occusators

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SESIN: SATI	SAMPOSKY RIVER	I	100						
ako use	EXISTING POT GROSS EROSION (TOMS)	•	L SPRING PUTATIVO VG ONLY (TONS)					531L MGMT. 343J2 LAVD A9E8 (ACEES)	7#1551NG 531C E355 7 F#CTOR 7ACRES)
CROPLAND	(TONS/ACPE)	Ţ	110'5/AC9 -1	1025ACEC 1 C	-1	117901	-1	1	411.9 6-11.9
PLAND	4998.6 2.5	4998.6 2.5	4794.2	5314.5 2.7	4757.0	613.2	2005.3	2301.6	000
PLAND	17070.9	1005.4	16372.9	18149.8	16246.0	17070.9	17078.3	2335-1	2335-1 7-3
CROPLAND S46	3954.2	3954.2	3792.5	4294.1	3763.1	1587.6	1587.5	4314.5	• • •
CROPLAND S46 5	5631.9	2514.1	5481.6	5987.R 6.1	5.59.7 5.8	5631.9	5631.3	978.5	711.7
STOPLAND STG A	160.1	160.1	153.5	176.2	152.3	8. 4.8 8. 5.	8. 6. 8. 5.	135.4	000
CROPLAND S46 9	211.9	211.9	203.3	225.3	201.7	211.9	211.9	177.9	a 9
213PLAND 343 10	1693.8	66.7 3.0	1624.6	1800.9	1612.0	207.8	680.0	22.2	22.2
1	43332.8 4.9	-I	41561.0	46071.4	-1	25566.7	31112.0	10475.0	•
VINEYARDS AVD ORCH-	999	0000	(TOUS) A	JATER AREA ONLY	66.7	66.7 (ACRES)			
SRASSLAND AVD PASTURE	9.4 89.0	9.4 89.00	9.4 (TONS) 3 A9.0(ACRES) J: *11 (TONS/ACRE)	JHER LAND JSE AREA	11117	711.7 (ACRES)			
JOOLAND	32.2 511.5	32.2 511.5 .06	(1045) 4 (ACRES) (TONS/ACRE)	41SSING DATA	27710.4 (ACRES)	_			0 0 1 0 0 0 0 0
SJAMARY TOTAL POTE 1481 25RCEWT REDUCTION:	SJAMARY TOTAL POTENTIAL SJAMARY TOTAL 14812-5 PERCENT REDUCTION:	\$2000 ERCS104 \$4058.9 \$4058.9	0 1 1 2 0 6 2 1 5 7 4 6 4 1 5 1 5 7 4 6 4 1 6 5 5 6 5 5 6 5 5 5 6 5 5 5 5 5 5 5 5	157664.1	146951.7 93 3.6	1 K 10	105382.3 2.7 28.2	34185.4	
	:								

LAKE EKIR MASTELATER MAMAGEMENT STUDY LAND MAMAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENAAIDS

34SIN: SAVI	SANDUSKY RIVER	FREYS	FRE4JHT.DM	#00:	COUNTY: 14 RICHLAND, OHIO	LAND. OHIO			
LAND USE	EN1STING POT-16 GROSS EROSION (70NS)		SPRING PLOWING G ONLY (TONS)	FALL PLOUING ONLY (TONS)	LINTER COVER CROP (TONS)	MAXINUM REDUCTION TILLAGE (TO'IS)		SOIL MEMT. SAOUP LAND AREA (ACAES)	E4151186 \$316 1085 > 7 F4CTOR (F048/ACRES)
CROPLAND SHG 1			10797.A 6.1	8517.7 10797.A 12130.A	10931.1	10931-1 2132-9		5496.9 1756.9	1756.9
SROPLAND S43	13655.1	10855.9	13466.6	15153.8	13655.1	2664.4	7493.7 2.8	5714.0	3556.1 5.8
CROPLAND SRG 3	1129.0	1129.0	1115.2	1252.9	1129.0	1129.0	1129.0	934.1	
SAS 43	628-1	628.1	620.5 .5	697.1	628.1	# * * * * * * * * * * * * * * * * * * *	344.7	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • •
CROPLAND SHG 5	112.2	112.2	110.6	124.5	112.2	112.2	112.2	155.7	••
CROPLAND 346 18	10932.3	622.7	10799.0	12152.2	10932.3	2133.1	5999.0	155.7	155.7
SADPLAND		-1	36931.9	36931.9	37387.8	-1	21077.3	7917-5	***************************************
VINEYARDS AVD ORCH.	999	000	CACRES) 4	ABTER Area only	311.4 (ACRES)	ACRES)			
31ASSLAND And Pasture	35.0 44.8 6.08	35.5 (TONS) 444.8(ACRES) 68 (TONS/	ICRC)	JTHER LAKO JSE AREA	778.4 (ACRES)	ACRES)			
4300LAND	139.7 1112.0		19.7 (TONS) 4: 2.0 (ACRES) -13 (TONS/ACRE)	41SSING DATA	177.9 (ACRES)	ACRES)	•		
SJRWARY TOT			37803.9	4248.9	38268.3	8854.1	21652-1	05S EROSION	
PERCENT REDUCTION:	UCTION:	41.3	1.2	-10.9	0.0	16.9	43.4		

LAKE FORE WASTEMBRATINES : PLST MANASTEREN STUTY U.S. APRY CORPS OF ENGINEERS, RUFFALO DISTRICT LAND MANASTERENT ALTERNATIVES : PLST MANASTERENT STUTES SECTION STATES

Jen Ose.	CKISTING #01.6605S GR05S TR08104 (T0N5)	AEDUCE SOIL 1058 TO T AMP EVICTIN (TOWS)	46 ACRE)	FALL PLOAÍNS ONLY (TOYS) (TONS/ACRE)	LINTER COVER CROP (TO'S) (TO'S)	MAKINGA REPUCTION TILLAGE (TOUS) (TOUS/ACRF)	TILLAGE: CHISEL PLOA (TONS)	11 4641. 300 L 240 64 C 253	7 FACTOR 571L LOSS 57 FACTOR 6 FACTOR 7
STE STE	649616.1	278436.9	624172.3	693590.5	654712.4	634712.4 90561.1 1.3	277706.2	69360.7	61452.6
STOPLAND	898851.3	689769.5 2.8	851239.9 3.5	96120A.9	883489.9 3.6	128253.1	390415.9	245446.7	1,66459.7
:40PLAND 3	79618.9	635#9.6 1.9	76209.1	#5051.9 2.5	77512.9	79618.9	79618.3	53445.2	7169.7 5.0
CROPLAND S46	2.609.2	766^4.2	73422.6	41429.6	75014.9	32836.2	32436.2	#6#00.	9.0
SAST SAST	28823.9	24313.1	27706.3	1.5	28020.8	26923.9	28629.3	19981.9	1823.0
CROPLAND 546 A	3705.8	3765.A	3558.2	3948.8	3564.2	1418.4	1518.	3360.6	•
STOPLAND 5	6098.7	6008.7	:90A.2	6918.9	5951.7	6098.7	6096.7	5300.4	
CROPLAND 346 10	199364.6	736A.7 3.5	192195.4	215719.2	195806.7	26210.9	85672.2 41.2	2063.1	2083.1
1	1942673-5	11499P6.5 2.5	-1	2076707.6	1904173.5	395921.2	902696.3	165396.9	
JINEVARDS AND ORCH.	270.9 173.6 1.57	260.7 (1 173.0 (A	(TONS) 4A'	AATER GREA OMLY	10712.0 (4CRES)	racres)			
JASSLAND AND PASTURE	1113.2 12762.7 .09	1113.2 (TJUS) 12782.7(ACRES) .09 (TJUS)	C ES	JTHER LAND JSE AREA	35874.8 (ACRES)	(ACRES)			
4300LAM0	6347.6 52188.5			WISSING DATA	228183.6 (ACRES)	IACRESI		ISSING DATA 228183.6 (ACRES)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SJRBAN TOTAL 21692 21692 21692	NT I A.	1 6	2674484.4	2980948.3	2734208.0 3.6	577262.4	1302276.9	759724.7	
	0.0	4.0.¢	:	6.9	2.0	79.5	53.3		

LAKE ERIF HASTEMATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINCERS, DUFFALO DISTALCT Land Hanagement alternatives : 9657 Hanagement Practice scenarics

			į		COURTY: G2 CRAWFORD, OHIO	FORD, ONIC			
\$	SANDUSKY RIVER	MEXICORD	E0.			•		,	
= = = = = = = = = = = = = = = = = = = =	ENISTING POT-REGROSS LO	DUCE SOIL	SPAING PLOUING	FALL PLOUING	d INTEA COVER CROP	MEDUCTION Tillage	AEDUCED Tillage: Cmisel *.		SOIL LOSS > 1 FACTOR
252	EAOS 10N (TOMS) (TOMS)	AND EXISTING (TONS) (TONS/ACRE)	(TONS)		(TONS)		(TONS/ACRE)	(ACAES)	(
; i =	18434.7	02286.6		7	1959bl.b 179055.2 8.6 8.0	26128.2	79921.5		22365.2
Ň	247525.8	177914.5	236140.9	262996.2	240306.4	35066.2	107261.1	64269.6	4.5028.4
	13647.0	12677.2	13021.5	14530.0	15249.0	13547.0	13647.3	7535.5	155.7
	15169.4	15169.4	10070.2	c.111.1	14727.0	6573.4	6573.4	19625.1	• •
	1161.3	4181 . 3 1 • 0	3989.7 1.0	1.1	4.0 <u>5</u> 9.4	4181.3	4181.3	5.0668	 
	24235.1	3 934 · B	23124.5	25749.8 60.9	23528.3	3435.3	10501.3	,22.5	\$22.5 \$7.4
• •	489193.3 3		14163.6 466772.0 519788.0 2.7 3.9 4.4	519768.0	474925.3	474925.3 89029.4 4.0 4.0	222086.3	119328.5	
	25.9 44.5 58	25.9 (TONS) 44.5 (ACRES .58 (TONS/	) ACRE)	JATER ONLY	2041.1 (ACRES)	ACRES)			•
	358.2 4139.0	358.2 (TONS) +139.0(ACRES) -89 (TONS)	ACRE)	JTHER LAND JSE AREA	7571.3 (ACRES)	ACRESI			
	1543.4	1543.4 (TONS) 14944.9 (ACRES) -10 (TONS/A	(TONS) 4 (ACRES) (TOUS/ACRE)	ISSING DATA	1976.5 (ACRES)	1ACRES)	-	1976.5 (ACRES)	[
•	SJAMARY TOTAL POTENTIAL 519620.1	SJMMARY TOTAL POTENTIAL GAOSS EROSION 95697.7 5.19620.1 334433.6 495697.7 3.6 3.4	495697.7	551969.u	564524.1 3.5	96235.0	237013.1	145433.5	
-	PERCENT REDUCTION: 0.0	35.6	4.5	-6.2	2.9	c.14	24.1		

LAKE ER16 WASTEJATER HAMAGEFINT STUDY
LAND MAMAGEMENT ALTERNATIVES : MEST MANAGEFICE SCEVARIOS

Carrollo	BASIN: SANDUSKY RIVER	USEV RIVER	46 # I CU* OH	*O*	#0C:	COUNTY: 03 SF'4F	03 SF4FC&+ 3413			
7.3 5222.6 10120.9 11470.3 10660.7 1574.4 1.1 1.1 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1		GACSS GACSS FROSION (TONS)	AEDUCE SOIL LOSS TO T AND EXISTING (TONS)	SPRING PLOWING ONLY (13NS)	£ 0 0 0		MAKTHUM REDUCTION TILLAGE (TO AS) (TOMS/ACRE)		IL MGMT. OJP LA40 EA C4:S)	FRISTING 5)IL LOSS 5) T FACT30 (ACRES) (1005/ACRE)
70.2 70.2 66.7 75.6 70.2 70.2 1.6.5 1.6.6.3 1.70.61.2 1.	SH6 1	10660.7		10120.9	11470.3	10460.7	1570.4	4725-1	1 + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.164 
1.6   1.5	LAND	1.11.1	6509.3 3.3	F428.2	9551.9	1.144	1311.0	3935.1 2.0	2001.5	1932.0
75.4 175.4 166.5 186.7 166.3 154.5 68.5 175.4 17	LAND	10.2	70.2 1.6	1.5	15.6	70.2	70.2	70.7		96
15.4 175.4 166.5 1PR.R 175.4 175.4 175.4 175.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	PLAMD	154.5	154.5	1.6.7	166.3	154.5	8.5	6.5	1.00.1	0.9
18.4	LAND	175.4	175.4	166.5	A. E.	175.4	175.4	175.1	177.9	
39-6 12612-2 35930-0 3854-1 35539-6 5533-0 0-0 0-0 01004S) 4ATER 0NLY 0-0 0-0 0170NS/ACRE) 22-4 22-4 (TONS) 37HER LAND 279-2 (ACRES) 0-10 (TONS/ACRE) 158-1 (ACRES) 0-10 (TONS/ACRE) 172-1 (ACRES) 0-10 (TONS/ACRES) 172-1 (ACRES) 0-10 (TONS/ACRES) 172-1 (ACRES) 172-1 (ACRES) 0-10 (TONS/ACRES) 172-1 (ACRES) 172-1 (ACRES	ROPLAND	15801.1	410.2	15661.0	17061.2	15A01.1	2333.5	7000.5 52.3	133.4	155.4
0.0 0.0 (1045) 4ATER 0.0 0.0 (1708/ACRE) 4REA ONLY 22.4 22.4 (1045) 37HER LAND 24.9 224.4 (1045) 35 AREA 10 (1708/ACRE) 55 AREA 10 9AB.4 (1708) 41551NG DATA 1 88.4 51 (1708) 41551NG DATA 1 88.4 51 (1708) 41551NG DATA 1 88.4 51 (1708/ACRE) 18.0 59539.6 103473.9 117284.6 10 6.9 2.5 6.6 7.5	40PLAND	35739.6	12612.2	_	38454.1 9.6	35739.6 R.9	5533.0	15970.3	4008-1	* * * * * * * * * * * * * * * * * * *
22.4 22.4 (TONS) JTHER LAND 24.9 224.9 (TONS/ACRE) JSE AREA -10 (TONS/ACRE) JSE AREA -10 (TONS/ACRE) -51 9AB.4 (ACRES) -51 1108S/ACRE) -11	INEYAROS VD ORCH.			OUS) 4A'CRES ARI	TER Ea only	158.1	ACRES)			
98-1 508-1 (TONS) 4[SSING DATA 1 51 9A8-4 (ACRES) 51 1 TONS/ACRE) 151 51 1 TONS/ACRE) 160 39539-6 103473-9 117244-6 10 6-9 2-5 6-6 7-5	RASSLAND ND PASTURE	22.4	22.4 (T 224.9(AC)	ACRE)	HER LAND I AREA	219.2	ACRFS3			
NTIAL GROSS EROSION 18.0 39539.6 193473.9 117284.6 10 6.9 2.5 6.6 7.5 0.0 03.8 5.9 -7.3	330LAW0	588.1 988.4 .51	508.1 998.4	_	SSING DATA	10487-1	ACRES			i
0.0 03.8 5.9 -7.3 0.0	JAMARY TOTAL	109118.0 6.9	! 0		117284.6	109118.0	18241.9		15708.5	
	ERCENT REDUK		8.80	8.9	-7.3	0.0	83°3	54.3		

LAKE ERIE WASTEWATER MAMAGEMENT STUDY LAND MAMAGEMENT ALTERNATIVES : BEST WANAULME'! PRACTICE SCENARIOS

SASIN: SAN	SANDUSKY AIVER	ME # 1 CO+ OM	MO*0	#nc)	PART II STAUCO	LYANDOT. OHIO			
JSD ONE	E 1571N6 POT.R GROSS EAOSION ACTONS) (10NS/ACKE)	W 0 2 5 5	. w 6	FALL PLOLING JALY FYONS) (TGNS/ACRL)	A INTER COVEN CROP (TONS)	MAX JAUM REDUCTION TILLAGE (TOMS) (TOMS/ACRE)	REDUCED FILLAGE: CMISEL P.D4 FIONS) FIONS/ACRED	SOIL MGMI. Stoup Land Attr faches	E41511W6 57E L055 7 F FCTOR (ACRES)
CROPLAND S46 1	ROPLAND 280102.4	42078,7	271483.9	299494.2	27365846	3/706.1	116350.1	22684.2	22604.2
S4S 2	166284.3	124693.1 2.9	163106.3	179934.7	164400.9	22453.7	69902.7	44402.5	36774.2
CROPLAND 346 3	12660.8	11820.1	12271.3	13537.5	1256646	12660.H 3.2	12663.4	1756.2	3911.7
CROPLAND S48 4	23942.9	23442.5	23206.2	25600.5	23390.4	9945.5	9445.3	25993.0	00
CROPLAND S46 5	12392.8 1.5	16949.9	12011.5	13250.8	12106.8 1.5	12392.8 1.5	12392.3 1.5	9265.2	311.4
SASSLAND 845	196.4	196.4	771.9	651.5	778.0	330.8	330.8	654.8	
C13PLAND SM6 9	5813-6	5813.6	1.1	6216.1	5679.4	5813.6 1.1	5813.5 1.1	5055.8	0.00
SAOPLAND 543	119291.8	3617.6	115621.2	127550.5	116558.9	16058.5	44552.3	1116.9	1116.9
CAOPLAND	623285.0 5 5.285.0	2.4	604107.0	666435.6	-1	117561.4	276948.5 2.5	132126.4	* 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1
JIVETARDS AVD ORCH.	161.2	151.0 (TOUS) 66.7 (ACRES 2.26 (TONS)	ACRE D	AATER AREA ONLY	*1*1.5 (ACRES)	(CRES)			
344SSLAND And Pasture	3407.6	*16.6 (TONS) 3407.6(ACKES) .12 (TONS)	ACR:)	JINER LAND JSF AREA	10153.4 (ACRES)	SCRESS			
ONDIAND	2078.5 11386.6		16.6 (ACRES)  *18 (TONS/ACRE)	HISSING DATA	101259.2 (1CRES)	ACRES)			
MAAY 101	SJYHAAY TOTAL POTENTIAL 1127523-5	SJAMARY TOTAL POEMTIAL 69055 LASSION 1127923.5 AB1270.1	1093365.4	12656/9.3 5.3	12C-049.3 11C2C33.1 21cn24.5 593437.3 2.2 2.2	21ca2#.b	;	226426.5	
PZ4CENT REDUCTION:	0.0 0.0	6.9	3.1	· · • ·	2.3	# O #	55.3		

LAKE ERIE WASTFWATER MAMAGEMENT STUDY U.S. ARMY CORDS OF EYSINETRS. AUFFALJ DESTRICT Land havasement altervatives : Lest Hanagement Practice scenarios

	501L 46MT. 540JP LIND 41EA (4CAFS)	10.48.9	7161.1 2513.1	249.1	5264.0	289.1	D • C	66.7	14477.9				27554.5
		5802.0	11324.3	669.3	1727.9	399.2	29.1	73.1	20027-1				35305.9
OTHC .NI	7	1780.4	5493.7	658.0	1727.4	349.2	29.4	73.1	-1	ACRES)	ACRES)		·
CCUNTY: 12 HAPPIN, 2410	Alvier Cover Croe Croe (Tons)	1303001	25H32.0 3.b	5.2	3939.0	345.0	67.1 A.	10.5	44168.6	355.R (ACRES)	945.1 (ACRES)	11875.9 (ACRES)	1113
401J	FALL PLOLING JALY (TONS) (TONS/ACRE)	14552.2	28372.A	707.6	4.526.4	422.# 1.5	13.1	17.5	4.8513.0	AATER Area only	JTHER LAND JSE AREA	,	85368-5
į.	SPRING PLOSING UNLY (TONS) CTONS/ALRED	13176.6	25726.1	641.4	3922.9	\$ 5 M S M S M S M S M S M S M S M S M S M	8 8 8	70.3	-I	(TONS) JATER (ACRES) AREA (TONS/ACRE)	ACRES		77415.5
MINICOLUM	REDUCE SOLL OSS TO T NY EXISTINS ITENSO	3708-5 13176-6	16312.4	668.0	N.4404	104.2	69.6 8.	13.1	25315.2	0.00	10.5 (TONS) 177.9(ACRES) .06 (TONS)		ROSS EROSION 77415-5
USKY RIVER	EVISTING POT., I GROSS FROSIDM (TONS)	13718.9	26784.8	668.0	N.4804	399.2 1.4	9.69	13.1	45797.9 5.2	900	10.5	51.6	SJ4MARY TOTAL POTENTIAL GR
BASIN: SANDUSKY RIVER	350 6747	132PLAND S40 1	CLOPLAND S45 2	CROPLAND S46 3	STOPLAND 343 A	CROPLAND SMG 5	STOPLAND STS	CROPLAND S46 9	I	VINEYARDS AVD ORCH.	348SSLAND And Pasture	JOOOLAND	SJAMARY TOTAL

LAKE ERIE JASTEJATER MAKAGEMENT STUDY.

U.S. ARMY CORPS OF EYGINEERS, BUFFALD DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENAMIOS

BASIN: SAN	SANDUSKY RIVER	ME x 1 C 0 + 0 M	3.0H	: AINDCO	ITY: 15 MARION. CHID	Jh. 6H13			
use	CX1STING POT GAOSS EROSION (TONS) (TONS/ACKE)	EXISTING POT-KEDUCF SOIL SPRIM: GROSS 10 T PLOUII EROSION AND EXISTING ONLY (TONS) (TONS) (TONS/ACME) (TONS/ACME) (TONS/	SPRING PLOUING 5 ONLY (TONS)	FALL PLOWING ONLY (TONS)	30000	7 E	K - U	SJIL 46MT. GAOUP LAND AREA (4CRES)	EXISTING \$31L LOSS > 7 FACT 38 (ACRES) (TOWS/ACRE)
1	9611.4	2735.5 3.0	2735.5 9218.4 3.0 16.1	10218.8	916.9	1179.1	3859.3	911.3	911.8
CROPLAND S46	1998.6	4996.6 2.5	4794.2	5314.5	4757.0	613.2	2006.3	2001.6	00
CROPLAND S46 3	17070.9	7005.4	16372.9 7.0	18149.8 7.9	16246.0	17070.9	17070.3	2335.1	2335-1
CAOPLAND	3954.2	3954.2 9.	3792.6	4204.1 1.0	3763.2	1587.6	1587.5	4314.5	
CROPLAND S46	5631.9	2514.1 2.6	5401.b 5.5	5987.8	5.559.7 5.5	5631.9 5.8	5631.9 5.8	978.5	7.11.7
CROPLAND 343 8	160.1	160.1	153.5	170.2	152.3	 	64 . 5 . 5	133.4	• • •
CROPLAND	231.9	211.9	203.3	225.3	201.7	211.9	211.3	177.9	 
LAND	191	5.0	1624.6	1800.9	1612.6 72.6	5. E	5.80.0 30.5	22.2	22.2
CAOPLAND FIVEYARDS AND ORCH.	0.0	21646.5	11561.1 11561.1 3.8 (TONS) 4 (ACRES) 4	46071.4 4.2 4ATER AREA ONLY	41238°H 3.8 56.7 (	38.4 26.366.7 3.8 2.4 56.7 (ACPES)	31112.0	10878.0	- - - - -
STASSLAND And Pasture		9.4 (TONS) 89.0(ACRES) .11 (TONS/	ACRED	JTHER LAND JSE AREA	711.7 (ACRES)	(ACRES)			
433DL AND	32.2 511.5		(TUNS) 4 (ACRES) (TONS/ACRE)	155	27710.4 (ACRES)		 	0 0 0 0 0 0 0 0 0 0	
BARY TO	SJAHARY TOTAL POTENTIAL GRO. 148112.5	680S	S ERJSION 4658.9 142062.5 1.9 3.6	157464.1	143962-6,	6.0		59185.9	
CENT RE	PERCENT REDUCTION: 0.0	50.0	4.1	.6.3	4.	39.7	20.5		

LAKE ERTE BASTEDATER RANAREPENT STUDY U.S. ARRY CORPS OF FRGIREERS. RUFFALO DESTRICT LAND RANAGERENT ALTERNATIVES : SEST RANARIMENT PRACTICE SFEURIUS

BASIM: SANDUSKY RIVER	NUSKY RIVER	HG+U2IA JH	HG+0	をついし	CAUNTY: 14 EJEHLAND. AHIO	LAND. OHIO			
	EXISTING POTGROSS EROSION (TONS)	EXISTING POT-REGUCT SOIL SPRING FROSTON AND EXISTING ONLY (TOMS) (TOMS) (TOMS)	EDUCT SOIL SPRING DSS TO T PLOWING IND EXISTING ONLY TONS) (TONS)	FALL PLOASUS ONLY (TONS/ACRE)	THEE CVER ROP TONS/ACRE)	MARINUM REDUCTION TILLAGE (TONS) (TONS)	2-0-0	EDUCED SOIL MEMIA ILLGE: 64339 LAND MISEL DL74 ANEA TONS) (ACRES)	EM 1871NG S)1L LOSS > 1 FACTOR 1 AGRES) (TONS/AGRE)
STOPLAND 3	10951.1	1 10931.1 6577.7 11797.0 12150.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	12797.0	12156.8	10931-1	2152.9	7	1756-3	1756.9
SHOPLAND 546 2	13655.1	10855.9	13487.6	35153.8 4.1	13655.1	2664.4	7495.7	3714.0	3536.1
CROPLAND SYG	1129.0	1129.0	1115.2	1252.9	1129.6	1129.0	1129.0	1.45	5 ° 0
CACOPLAND	628.1	624.1	628.5	697.1	628.1	344.7	F. 4 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	1200.9	9.0
CROPLAND SYG	112.2	112.2	110.8	124.5	112.2	112.2	112.2	155,7	8 4 6 6 6
243PLAND 846 10	10982. 10-07	622.7	10799.0	12132.2	10932.3	2153.1	5999.4 53.5	155.7	155.7
CROPLAND		23865.6 2.8 0.0	16.	1.3	311.4 (ACRES)	4516.3 1.1 ACRES)	23077-9	1917.5	• • • • • • • • • • • • • • • • • • •
AND ORCH.	0.0	900	(ACRES) NR (TONS/ACRE)	WEA JALY					
SRASSLAND NYD PASTURE	20 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	35.5 (TONS) +++.H(ACPES) -08 (TONS)	ACRE)	JTHER LAND JSE AREA	778.4 (ACRES)	ACRES)			
MODDLAND	139.7	139.7 (TOUS) 1112.0 (ACRES	(TONS) 41 (ACRES) (TONS/ACRE)	VISSING DATA	ISSING DATA 177.9 FACRES!	ACRESI			# # # # # # # # # # # # # # # # # # #
JAMARY TOTA		GROSS EROSION 22454.7 2.3	37An3.9	42446.9	54268.3 4.4	8884,7	21652.1		
»ERCENT REDUCTION:	UCTION: 0.0	41.3	3.2	-10.9	0.0	76.9	45.4		

LAKE ENIE WASTEWATER MAMAGENENT STUDT Land Mamagement alternatives: Gest Managiment Practice Scenarios

HESTH: SAN	SANDUSKY RIVER	ME X 1 C 0 + 0 H	HO+0	COUNTY:	62 ALL	IN BASIN			
LAND USE	EXISTING POT.RED GROSS LOS EROSION AND (10NS) (10	UCE SOI S TO T EXISTI NS)	SPRING PLOUING S ONLY (TONS)	u a	_	E & P - U -	~ - 0	SDIL MGMT. SADJP LAND AREA (ACRES)	FRISTING 531L LOSS 5 T FACTOR (ACRES)
CAOPLAND S46 1	509710.5	204833.8	491016.3	544671.5	496905.7	1	216753.1	59631.7	19697.7
SAG 2	470554.0 3.8	345550.2 2.8	452131.8	561772.1	458238.2 3.7	65961.4 .5	202104.5	125538.5	97872.9
CROPLAND S46 3	45246.0 3.0	33369.5	43489.2	4H223.2 3.2	43707.1	45246.0 3.0	+5246.3 3.0	15194.5	6462.5
CAOPLAND S96	47953.5	4.7933.5	46163.0	51111.9	46602.2	20247.6	27247.0	55517.3	0.0
STOPLAND STG 5	22892.8	18362.1 1.3	22063.5	24417.4	22198.5	22892.h	22892.3	13955.2	1025.0
SY6 8	1026.0	1026.3	992.2	1095.4	997.5	424.5	424.5 .5	917.2	9 0
CROPLAND S46 9	6.598.7	6.198.7 1.2	5908.2	6514.9 1.2	5951.7	6096.7	6099.7	5300.4	60
CROPLAND S46 10	171954.1	6652.1 3.6	166170.2 89.8	184234.4	156412.4 91.6	24166.2	13735.7	1850.8	1850.8 92.9
CLOPLAND	1275415.6 663846.3 4.8 2.5		1227936.4 1561444.H 4.6 1561444.H	1	1243011.3	2554H1.4 1.0	-1	267866.5	
ALVEYARDS AVJ ORCH.	187.0	176.9 (1 111.2 (A	(TONS) 4A (ACRES) 4A (TONS/ACRE)	BATER Greb Jely	7674.6 (ACRES)	ACR.ES)			
SGASSLAND NV) PASTURE	852.5 1483.1	852.5 (TOUS) 8983.1(ACRES) .13 (TONS)	ACKE)	JTHER LA'S JSE AREA	20371.5 (ACKES)	ACRESI			
JODEAND	4353.6 29966.4	4353.6 (1045) 29966.4 (40465) .15 (TUNS/4	3.6 (1345) 41 6.4 (4CRES) -15 (TONS/ACRE)	415SIVG DATA	169066.9 (ACRES)	ACRES)			
J4484 131			1477577.3	S (ROSIN 0866.C 3875572.3 2:F.F.256.4 395557.4 397145. 8.2 4.3 4.5	1950527.4	397146.3	502510.5	1-969594	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PERCENT REDUCTION:	0001100:	47.7	3.1	.6.	2.5	79.6	53.7		

LAKE ERIE WASTEWATER MAWAGEMFNT STUTY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT LAND PANAGEMENT ALTERNATIVES : BEST MANAGEMFNT PRACTICE SCENARIOS

3sn on the	EKISTING POT-R GROSS L EROSION A (TONS) (	COUCE SOIL  SS TO T  DD EVISTING  TONS)	S MG MACRED	FALL FLOWING ONLY (TOMS)	AIVER COVER CRTP (T2'S) (TONS/ACRE)	7 2	REDUCES TILLAGE: CMISEL PLOW (TONS)	• •	E4157146 53 (L LOSS > T FACTOR (ACRES) (TOUS/ACRE)
CROPLAND S46			80289.2 134572.2	155418.A 3.7	142010-1	23722.5	27722.5 63386.5	17327.5	17927.5
230PLAM0 546 2	177900.7 3.R	127706.6	169746.9 3.6	189019.6	172712.6 3.7	25202.6	77090.3	45528.7	29993.6
CROPLAND S43	7437.2	6467.3	1996.5	7902.0 2.1	7220.2	7457.2	7457.2	3790.6	155.7
SMG 4	14280.4	14280.4	13525.9	15173.0	13653.9	\$188.2 . 1	6189.2	19446.4	9 • 0
CROPLAND 346 5	3251.5 1.0	3251.5	3102.5	3454.7	3156.6	3251.5 1.0	3251.5	3120.4	000
STOPLAND STG 10	21614.7	1712.4	20624.0 54.5	22965.6 60.7	20994.3 55.5	5062.1 8.1	9366.1	378.1	578.1 57.2
I		33707.4	353767.8	393933.7	359947.1		166720.1	96299.7	I
FINEYARDS AND ORCH.	22. 4. 5.5. 5.5.	25.9 (TOVS) 44.5 (ACRES	) ACRE)	4ATER Area only	1742.1 (40RES)	(CRES)			
SRASSLAND N#3 PASTURE	327.2	327.2 (TONS) 3444.6(ACRES) .00 (TONS)	ACRES	JTHER LAND JSE AREA	6212.2 (ACRES)	ACRES)			
400DL AND	1213-1		(TONS) 41S (ACRES) (TONS/ACRE)	TISSING DATA .	7521.9 (ACRES)	ACRES)			
SUMBARY TOTAL BODGE	EWT1AL 116.8 3.6		380902.9	423959.0	387526.8	SS FROSION 52203.2 3A0902.9 423959.0 3R7526.R 72202.4 100395.7 2.5 3.4 3.8 3.8 3.5 .6 1.5	•	112054.8	
בניין אנעענ	9.0	36.8	9.6	-6.2	2.9	81.9	54.9		

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LAKE ERIE WASTEWATER MANAGEWEVT STUDY LAND MANAGEMENT ALTERNATIVES : 6EST MANAGEMENT PRACTICE SCENALIOS

BASIN: SAN	SANDUSKY RIVER	UPPER	UPPER SANDUSKY.JH	H COUNTY:		11 MYANDOT. OMEO			
-440 USE	ERISTING POT-10 GROSS (TONS) (TONS) (TONS)	T-REDUCE SOIL SPRING LOSS TO T PLOWIN AND EXISTING ONLY (TONS) (TONS)	EDUCE SOIL SPRING   DSS TO T PLOWING   ND EXISTING ONLY   TONS	FALL PLOWING ONLY (TONS)	JINTER SUVER CROP (TONS)	E ~	2 - 0	SOIL MENT. BROUP LAVO AREA (ACRES)	E4151146 S)14 1655 > T FACTOR (ACRES)
CROPLAND S46 1	71455.2	14993.3	14943.3 69256.6 3.6 12.4	76462-1	69806.2	9619.0	29681.4	2504.3	5604.3
SAOPLAND 343 2	28217.5	18404.4	27349.3	30171.6	27566.3	3798.5	11721.1	5026.3	4470.1
CROPLAND 546 3	1474.6 3.9	1134.2	1429.2	1576.7	1440.6	1474.6	1474.5	378.1	378.1
STOPLAND SME	2954.1	2954.1	2863.2	3158.6	2895.9	1227.1	1227.1	3091+3	00
CROPLAND S46 5	4991.5	3906.	4837.9 1.8	5337.1	1.6	4991.5 1.8	4994 4.5	2735.5	135.4
340PLAND S46	27.4	27.4	26.5	29.3	26.7	11.4	11.4	22.2	00
CROPLAND S46 9	1021.5	1021.5	990.1	1692.3	998.0	1021.5	1021.5	3.69.6	6.0
SAG 10	50905.B 127.2	1245.4	49339.4	54430.3	124.2	6852.7	21145.5	\$ 00 \$	127.2
II CROPLAND	161047.6	48686.7	-1 156092.2 8.2	172197.1	157331.0 8.2	28996.3 1.5	1274.1	19148.2	
VINEYARDS	161.2 66.7 2.42	151.0 (TONS) 66.7 (ACRES) 2.26 (TONS)	ACRE)	dater Area only	845.1 (ACRES)	ACRESI			
SAASSLAND And Pasture	183.5 1376.8	183.5 (TONS) 1378.8(ACRES) .13 (TONS)	ACRE)	JTHER LAND JSE AREA	. 2290.7 (ACRES)	ACRESI			
	496.3 2357.4 .21		*	TISSING DATA	22217.2 (4CRES)	ACRES)			
3,14888 TOTAL	3,4484Y TOTAL POTENTIAL 318609.5	POTENTIAL 340SS ER3S13V 318609.5 97471.9	308848.2 6.8	340543.0 311286.2 58720.5 7.5 6.9 1.3	311286.2	58720.5 1.3	141924.2	1-1	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PERCENT REDUCTION:		69.4	3.1	.6.9	2.3	A1.6	55.3		

LAKE ERIE WASTEWATER MANACEHENT STUDY Land Managment alternatives : Rest Manacement Practice Scenarics

HS IN: SAN	SANDUSKY RIVER	#3a40	UPPER SAVOUSKY.)H		CIMC ONCINAM SI : STRUCT	01. J413			
	EXISTING PO- GROSS EROSION (TONS) (TONS/ACRE)		SPRING PLOMING CONLY (TOUS/ACRE)	4 4	2000	12	TILLAGE: CHISEL PLOW (TOWS)	\$31L MGMT. \$40J LAVD AMER (4C4ES)	ERISTIM6 531 LOSS > 1 FACTOR (ACRES) (TOAS/ACRE)
CROPLAND S46 1	4864.7		1067-5 460A-3	5108.4	4572.6		1929.0		355.4
SRSPLAND 343	2056.0	2056.0 2.5	1971.9	2185.9	1956.6	252.2	925.5	922.3	50
CROPLAND 346 3	6101.3	2935.E 3.0	5851.8 6.0	6.86.9	5885.5 5.9	5101.3 6.2	6101+3	948.5	978.5
STOPLAND 345	1530.2	1530.2	1467.6	1626.9	1456.2	614.4	614.4	1568.0	00
CROPLAND 346 5	1961.8 7.1	765.6	1824.0	2022.0	1809.9	1901.8	1901.9	266.3	200.6
CROPLAND 546 9	53.7	53.7	51.5	57.1	51.1	53.7	53.7	<b>6.</b> • •	e e
STOPLAND	1693.R 76.3	56.7	1624.5	1800.9 A1.1	1612.0	207.8	5.00.	25.2	22.2
I	18141.5	-1	17399.7	19268.1	17264.9	9720.6	12105.7	1.58.8	
VINEYARDS And orch.	0000	0000	(TONS) 4 (ACRES) 11 (TONS/ACPE)	JATER SREA ONLY	44.5 (ACRES)	ACRES)			
JAKSSLAND AND PASTURE	000	0.0 (TONS) 0.U(ACRES) 0.00 (TONS)	ACRF)	JTHER LAVD JSE AREA	378-1 (ACRES)	ICRES)			
JODEAND	22.7 266.9 .09	~ ~	CRF3	41SSING DATA	6115.9 (ACRES)	ACRES)			
JAMARY 101		055 FR051 20241.7 1.9	41498.5	45996.5 41177.4 23207.6 28889.7 4.1 5.9 2.2 2.2 2.2 2.7	41177.4	23207.6	26669.7	10541.5	1
	0.0 0.0	53.2	•:1	-6.3	e:•	1.91	33.2		

LAKE ERIE LASTELATER NAVBEENZVI SIJOV U.S. AFMY CORPS OF ENGINEEPS. BUFFALD DISTRICT Land manadement alternatives: Rest manadiment practice scenarios

3451N: SAN	SANDUSKY RIVER	UPPER	UPPER SANGUSKTODM	COUNTY:		14 AICHLAND. OHIG			
350 024.	CRISTING POT.RI GROSSS L EROSION A (TONS) (		1PRING 1-134 NG 10NLY 10NS/ACRE)	FALL PLONENC ONCY (TONS) (TONS)	TANER COVER (TONS) (TONS)	*	# L ()	\$31L MGMT. \$₹3JP LATD AREA (ACRES)	EXISTIM6 S31L . DSS > 1 FACTOR (1008/ACRE)
SVG	100 100 100 100 100 100 100 100 100 100		8517.7 10797.8 4.8 6.3	12130.8	10931-1	2132.9		5993.3 2756.9 3.4	1756.9
CROPLAND Sec 2	13655.1	16855.9 2.9	33488.0	15153.8	13655.1	2561.1	2.8	3714.0	3556.1
SHE SHE	1129.6	1129.4	1115.2	1252.9	1129.0	1129.0	1123.0	1.054	55
CROPLAND S45	628.1	628.1	620.5	697.1	628.1 .5	544.5	344.4	1200.9	90
SAGE S	112.2	112.2	114.6	124.5 8.	112.2	112.2	112.2	155.7	90
SAGPLAND SAG 10	10932.5	622.7	10799.0	12152.2	10932.3	2133.1	5999.4 58.5	155.7	155.7
CROPLAND	37387.8	21865.0	36931.9 4.7 4.7 4.8	4168 4168 5.2	37387.8 H5	1.1	21077+9	7917.3	1
A43 ORCH. 54assland Avd Pasture		0.0 ACRES 0.00 (TONS) 35.5 (TONS) 44.84ACRES) 44.84ACRES)	ACRES	REA DNLY JTHER LAND JSE AREA	778.4 CACRESI	ICKESI			
JOOPLAND	139.7		(TONS) 415 (TONS/ACRE)	415SING DATA	117.9 (ACHES)	ICAES)			
SJAMARY TOTAL POTE SJAMARY TOTAL POTE JACZ	SUMMARY TOTAL POTENTIAL GRO JACAGA J JACAM REDUCTION:		37803.9	SS FROSION 37803.9 42444.9 3+264.3 4+54.7 22454.7 37803.9 42444.9 3+264.3 4+54.9 4.5 4.5 4.1 76.9	4.66 4.66 4.66 4.66	4454.7	21652-1	3.52.0	

LAKE ERIF WASTEKATER MANAGERNT STUTV USS. BRMY CORPS OF FYSTMETRS. PUFFALO DISTRICT LANC MANAGEMENT ALTERNATIVES : MEST MANAGEMENT PRACTICE SCHURLUS

COUNTY: 62 ALL IN BASIN

UPPER JANFUSKY. PJONU

9451K: SANDUSKY RIVFR

LAKE ERIE JASTELATER MANAGEMENT STUCY U.S. ARMY COKPS OF ENGINEERS, BUFFALO DISTRICT Land Management alternatives : Best Management Practice scenarios

	E4151795 5311 LOSS 5 T FACTOR ( ACRES) ( TONS/ACRE)	5871.2	10270.6		• •	• •	155.7	1					
	SOR MENT. GROUP LAND AREA (ACMES)	5871.2	17435.7	911.8	6227.0	1356.6	155.7	11958.0				93180.7 137147.2 152622.9 139526.6 25349.7 64543.4 42610.7 2.2 3.2 3.6 3.6	
	KEOUCED TILLAGE: CMISEL P.OM (TONS) (TONS)	22163.6	26308.3	1456.3	2059.1	1389.9 I.J	5721.2 25.3	57113.3				64543.4	55.1
F340+ 3410	LOVER REDUCTION TILLAGE: CROP TILLAGE CHISEL P.OM (TONS) (TONS) (TONS/ACRE)	54392.6 49649.4 7252.3 22183.6 9.3 8.5 1.2 5.3	8600.8	1456.5	2059.1	1389.9	1216.6	1.21975.6	ACRES)	ACRES)	ACRES)	25349.7	#2.4
COUNTY: 02 CRAMF3RD+ 3HIO	LINTER COVER CROP (TONS) (TONS/ACKF)	7.64964 7.64964 8.5	58940.7	1010.0	*613.2	1349.4	8337°C 53°5	124354.6	178.4 (ACRES)	2.491.1 (ACRES)	4443.4 (ACRES)	1.59526.6	2.9
MOD	FALL PLOWING ONLY (TONS) (TONS/ACRE)	54392.6	64566.9	15+6.0	5048.7 8.	1476.E 1.1	9124.2	136336.3	AATER Area orly	JIHEM LAND JSC AREA	41SSING DATA	152622.9	-6.2
BUCYRUS .UH		28622.1 48846.7 4.9 8.3	57928.9 3.3	1390.2	4534.4	1326.2	6193.9 52.0	122219.9	ACRE)	ACRE)	(TONS) 415 (ACRES) (TOVS/ACRE)	N 137147.2 3.2	3.4
BUCYR			45842.4	1456.9	4751.7	1389.9	133.9	82796.9 2.6	25.9 (TONS) 44.5 (ACRES .58 (TONS)	213.7 (TONS) 2046.6(ACAES) .10 (TONS/			35.2
SANDUSAY RIVER	CAISTING POT-1 GROSS EROSION (TONS)	51193.0	60711.5	1456.9	4751.7	1389.9	8587.5 55.2		25.9 44.5	213.7 2046.0	514.9 4158.8	SJAMA2T TOTAL POTENTIAL GROSS ENOSION 143694.4 93180.7 3.4	1CT ION:
BASIN: SAWD		SAS 1	CROPLAND S46	233PLAND S46	CAOPLAND S46	CROPLAND S45 5	CAOPLAND Sy6 10	J.OPLAND	VINEYARDS AVD ORCH.	SRASSLAND And Pasture	JOODLAND	STANAAT TOTA	PERCENT REDUCTION:

LAKE ERIE WASTEWATER RANAGEFENT STUDY U.S. ARMY CORPS OF ENSINEERS. PUFFALO DISTRICT LAND MANAGERENT ALTERNATIVES : REST MANAGEREUT PRACTICE SCENARIOS

345TH: SAN	SANDUSKY RIVER	9UCYBUS+1H	HC*SN	C0041	COUNTY: 14 RICHLAND, OMIO	AVD. JHIG			
LAND USE	EXISTING PO- GROSS EROSION (TONS) (TONS/ACRE)	EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO T PLOULI EROSION AND EXISTING ONLY (TOWS) (TOWS) (TOWS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE)	SPRING PLOUING 5 JULY (TJVS) (TOAS/ACRE)	# G	CCVFR REDUCTION CRCP TILLAGE (TONS) (TONS)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRF)	FEDUCED FILLAGE: HISEL PLOW (TONS)		ERRSTING SJI LOSS > T FACTOR (ACRES) (1045/ACRE)
TAOPLAND 846 1	10931.1	QOPLAND 10931.1 8517.7 10797.8	10797.8	12130.8 6.9	11951.1	2132.9	5999.3		1756.9
CROPLAND 845 2	13655-1	10855.9	134AR.6 3.6	15155.4	13655.1	2664.4	7493.7	1710.0	3536.1
CROPLAND SWG 3	1129.0	1129.0	1115.2	1252.9	1129.0	1129.0 I.2	1129.9	934.1	90
S40PLAND	628.1	628.1	620.5 E.	697.1	628.1	344.7	F	1200.9	90
CROPLAND 346 5	112.2	112.2	110.9	124.5	112.2	112.2	112.2	155.7	00
S4S 10	10932.3	622.7	1(799.0	12132.2	10932.3	2133.1	5999.1 59.5	155.7	155.7
I	37387.8	21865.6 2.8	36931.9	41491.3	37387.8	8516.3 1.1	21077.9	7317.5	
VINEYARDS And orch.	0.00	9000	0.0 (TCNS) 4A 0.0 (ACRES) ARI 0.00 (TONS/ACRE)	JATER AREA ONLY	311.4 (4CRES)	CRESI			
37ASSLAND And pasture	8.50 8.00 8.00 8.00	35.5 (TONS) 444.8(ACRES) .09 (TONS)	ACRE)	JTHER LAND JSE AREA	778.4 (4CRES)	CRES)			
JOODLAND	139.7 1112.0	139.7 (TONS) 1112.9 (ACRES	12.0 (4CRES) 41: -13 (10NS/ACRE)	4 ISSING DATA	177.9 (ACRES)	CRESI			1 6 8 9 9 1 9 6
SJANARY TOT	AL POTENTIAL 38268.3 4.0	SJMMARY TOTAL POTENTIAL GROSS ENOSION 38268.3 22454.7 37803.9 42448.9 38268.3 8854.7 21652.1 4.0 2.3 3.9 4.4 4.0	3.9	42448.9	38268.3	8854.7	21652-1	9652.0	•
	0.0	41.3	1.2	-10.9	0	76.9	13.1		

LAKÉ ERIE MASTEMATER MAMAGÉMENT STUPY U.S. ARMY CORPS OF ENGINCERS. PUFFALO DISTRICT Land managément altemnativés : best management practice scenarios

SANDUSKY RIVER	BUCTRUS.3H	*0*	LAUC C	COUNTY: 62 ALL IN BASIN	IN BASIN			
!						26011660	SSI MEMI.	FRISTING
6 POT-RE		SPRING PLOWING	FALL PLOWING DNIY	LINTER COVER CROP	REDUCTION TILLAGE		GROUP LAND AREA	\$31L LOSS > T FACTOR
EROSION AND EXT (TONS) (TONS) (TONS/ACRE) (TOUS/A	ONS) (TONS)	(TONS/ACKE)	(TONS)	(TONS)	<b>-</b>	(TONS)	(ACRES)	(TONS/ACRE)
-	37362.2	37362.2 59884.0 65786.8	66786.8	60471.5	3420.0			1672.6
8.1 74695.6 568 <sup>3</sup>	56831.7	71750.9	# · • 6 6 0 8	72910-5	11310.7	33939.8	21194.2	13955.2
3,5	2.7	3.4	2800.9	2543.4	2585.9	2585.3	1945.3	O • O
	*:	1.4	1.3	5201.5	2403.8	2403.3	7+28.0	0
5319.9 53	5379.9	1.	E .	1.		7		0 0
1502.1 15	1502.1	1437.1	1631.3	1461.6	1502.1	1502.1	1512.3	
19519+8 13 62+7	1356.6	18992.9	21256.4	19269.3	1549.7	9720.1	311.4	5311.4 62.7
166058.9 105018.4	105018.4	159704.6	178195.6	162297.6	30572.2	78440.1		
25.44 2.56 2.58	25.9 (TONS) 44.5 (ACRES .58 (TONS)	) ACRE)	JATER Area only	1089.7 (ACRES)	( ACRES)			
2496.8 24	249.2 (TONS) 2490.8(ACRES) .10 (TONS)	ACRE 1	STHER LAND JSE AKEA	3669.5 (ACRES)	(ACRES)			
ັທ	654.6 (TONS) 5270.7 (ACRES) 112 (TONS/A	CREJ	41SSING DATA	45H1.3 (ACRES)	ISSING DATA ASH1.3 (ACRES)		[	
VTIAL GROSS 03.2 116 3.5	116108.8	176039.5 3.4	196335.9	178881.2 3.4	34523.0	86381.5	52351.T	
SERCENT REDUCTION: 0.0	36.6	8.8	-1.3	2.3	81.1	52.5		
o. 0	36.6		2		•	•	•	

LAKE ERIE WASTEWATER RANGEWENT STUDY U.S. ARMY CORPS OF ENGINEERS. PUFFALD DISTRICT Land Hangeenent alternatives : Hest Management Practice Scenarios

	(1045/ACAE)	•	18503.2	2 2246.2	0.0	2 155.7	0.0	1 0.0	9 * KKK 8 * CB	0			
\$311 MGMT. G20UP LAND A2EA (AC2ES)			2043A.	2246.2	10141.2	2402.2	200.2	1092-1	333.6	15154			63620.4
REDUCED TILLAGE: CMISEL PLON (TONS)	(TONS/ACRE)	24800.2	32385.1	7552.3	3619.5	1.4	4 . 6 6 6	4709.5	12871.2 39.5	93968.3			73565.3 156225.2 .9 1.3
MAKINUP MEDUCTION TILLAGE (TOPS)	(TONS/ACRE)	9335.4	10445.6	7552.8 3.4	3619.6	1950.R 1.4	98.4	4708.6	4171.2	43910.4 1.0 1.0	ACRES)	ACRES)	73565.3
EINTER COVER CROP	(T)NS/ACRF)	67733.8	76168.0 3.7	7.578.5 3.3	4512.7 .8	5840.1 1.4	251.4	4599.9 1.1	30271.2	198735.6 439 4.4 1579.0 (4CRES)	3447.1 (ACRES)	32981.1 (ACRES)	329227.3
FALL PLOWING ONLY (TONS)	(TONS/ACRE)	)	83365.0 4.0	8075.7 3.6	9317.0	4202.9 1.5	253.2	5034.5	33131.5 99.3	217513.6 217513.6	AREA ONLY THER LAND JSE AREA	ING DATA	360235.4
SPRING PLOWING CNLY (10NS)	(1345/4C1)	67200.0	7556A.2	1328.4	F445.7	3909.H	229.5	4563.7	30032.9	9.6	ACRE)	(TONS) 41S (ACRES) (TONS/ACRE)	326643.1
*REDUCE SCIL SPRING LOSS TO T PLOWI AND EXISTING CNLY (TONS)		15055.4 3.8	59A74.8 2.9	6738.6 3.0	8713.8	3754.4	256.8 1.2	4708.5	3.000.8	100061.7	0.0 (ACRES) 0.90 (TONS) 111.5 (TONS) 867.3(ACRES) 613 (TONS)	528.2 4648.0 .11	1662 ROSI 1662 RT - 8
CRISTING POT- GROSS FROSION TONS)	(TONS/ ACRE)	6933.8	77967.2	7552.A	6713.8	3430.8	236.A 1.2	4708.6 1.2	30986.3	203430.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	528.2 4648.0	NT1AL 79.5
SO OSE		ClopLand S46 1	SAJPLAND S4G 2	CROPLAND S46	CAOPLAND 8	240PLAND S46 5	CROPLAND S46 8	SAOPLAND S46 9	CROPLAND S45 10	STOPLAND STOPLAND	AND ORCH. 31ASS MD 14D PASTURE	4000LAND	SUMMARY TOTAL POTE 3569

LAKE ERIF WASTEWATER HAMAGEMENT STUDY U.S. AMMY CORPS OF ENGINEERS. BUFFALD DISTRICT LAND HAMAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

	•	1378.8	7161.1 2513.1	269.1	5.204.0	289.1	0.0 0.0	0.0	14477.3				27554.5	
	REDUCED TILLAGE: CHISEL PLOW (TONS)	5802.0	11329.0	668.0 2.5	1727.	399.2	23.4	73.1	20027.1				35305.3	
IN• 0H10	1 a :	1/89.4	3493.7	668.0 2.3	1727.4	399.2	29.4 8.3	73.1	-1	ICAES)	ICKES)		•	
Y: 12 HERDINE OHIO	LINTER COVER CROP (TONS)	13230.6	25832.0 3.6	2.2	3539.0	385.0 1.3	67.1	10.5	44168.6	355.8 (ACRES)	H45.3 CACKES)	11#75.9 (ACRES)	77733.4	
COUNTY:	FALL PLOWING ONLY (TONS)	14552.2	28372.8 4.0	707.6	4326.4	422.H 1.5	73.7 . H	17.5	48513.0	AATER Area July	JTHER LAND JSE AREA	WISSING DATA	85368.5 3.1	
#0.CH	EDUCE SOIL SPRING 0SS 13 7 PL34/4G ND ERISTING ONLY 10NS) (10NS) 10NS/ACRE) (10NS/ACRE)	13176.6	25726.1	641.6	3922.9	383.4	8. 8.	70.3	43987.7	(TONS) JATER (ACRES) AREA (TONS/ACRE)	ACRE)	3.6 (TONS) 415 3.6 (ACRES) .05 (TONS/ACRE)	0SS FR0S13N 77415.5 R536R.5 77133.4 14485.5 4519.6 2.8 .5	
CR AMFORD CH		3708.6 13176.6 2.7 9.6	16312.4	668.0 2.3	8. 8.	399.2	69.6 8.	73.1	25315.2	0.0 0.0 1) 0.0	10.5 (TONS) 177.9(ACRES)	51.6 (TONS) 1023.0 (ACRES	1	
TYMOCHTEE CREEK	EXISTING POT-8 GROSS ERDSION LTONS/ACRE)	13718.9	26784.A 3.7	668.0	8.00 e	399.2	69.6 8.	13.1	-[[- 45797.9	0000	10.5	51.6	POTENTIAL G 80596-9 2-9	
SASIN: TYMOC		TROPLAND 343	CLOPLAND S46 2	STOPLAND 3	CROPLAND S46	CHOPLAND 343 5	CROPLAND SNG 8	CROPLAND S46 9	1	JINEYARDS AVD ORCH.	SRASSLAND AND PASTURE	JOOFAND		

LAKE ERIE MASTEVATER MANAREMENT STUTY U.S. ARMY CARPS OF FAGINFERS. PUFFALO DISTRICT Land Management Alternatives : Pest Manaschent Practice scenatios

BASIN: TYMO	TYNGCHTEE CRFEK	CBAUF	CRAUFORD	1 <b>2</b> 000	COUNTY: 15 MARITY. CHIO	0170 **			
. LND USE	EXISTING POT- GRCSS EROSION (TONS)	•	REDUCE SOIL SPRING LOSS TO T PLOBING AND FRISTING ONLY (TONS) (TONS/ACRE) (TONS/ARRE)	-		MEXITYUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	GEOUCES TILLAGE: CHISEL PLOW (TONS)	SOL WENT. GROUP LAND AREA (ACRES)	
STOPLAND 1	- 1	1658.0	-1	5110.4	4574.4	589.7	1329.9	556.0	9.6
343PLAND S46	2942.6	2942.6	2822.3	3128.5	2430.4	361.0	1.181.1	1178.7	00
240PLAND 34G 3	10969.6	4069.8 3.0	10521.1 7.8	11652.9 A.f	10439.5	10369.6 8.1	10969.5	1356.6	1356.6 A.1
340PLAND S46	2424.0	2424.0	2324.9	2577.2	2336.9	973.2	973.2	2546.5	0.0
CROPLAND SMG 5	3750.1 5.2	1748.5	3577.6 5.3	3965.A 5.6	3549.8 5.8	3730.1 5.2	3730.1	7111.7	467.0
233PLAND 343 R	160.1	160.1	153.5	170.2	152.3	8 . 8 .	6.5	133.4	
CROPLAND S45	158.3	158.3	151.8	16A.3 1.3	150.6	3.58 . 3 1 . 2	154.3	133.4	000
CAOPLAND	CAOPLAND 25191.3	13171.3	24161.3	26783.4	23475.9	16946.2 2.5	19005.7	6716.3	
VINEYARDS AND ORCH.	000	0.00	(TONS) JAT (ACRES) 1RE (TONS/ACRE)	JATER IRTA ONLY	22.2 (ACRES)	ACRES)			
314SSLAND 473 PASTURE	9.4 89.0 11	9.4 (TONS) 89.0(ACRES) .11 (TONS <sup>2</sup>	4CRE)	JTHFR LAND JSE AREA	335.6 (4CRES)	ACRES)			
4300LAND	244.6	5	9.5 (TONS) 419 9.6 (ACRES) .04 (TJVS/ACRE)		21594,5 (ACRES)	ACRESI			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SJAWARY TOTAL POTENTIAL 102451.4	SJAMARY TOTAL POTENTIAL 102431.4	GROSS E 535	94246.4 3.4	108900.2 3.R	97485.0 9.4	97485.E 68524.5 77302.9 3.4 2.4 2.4 2.7	77302.9	24644.4	
בירנאו אנחל	0.0	41.1	;	-6.3	**	33.1	24.5		

LAKE ERIE WASTEWATER MANACEMENT STUDY U.S. ARMY CORPS OF EMGINEERS, PUFFALG DISTRICT Land Management altermatives : Best Management Practice scenarios

BASIN: 1	BASIN: TYMOCHTEE CREEK		CR AUFORD+ OH	COUNTY:	62 ALL	IN BASIN			
SU USE	EXISTING PO GROSS FAOSIJN (TONS)	:	SPRING PLOWING 5 ONLY (TONS)		JINTER COVER CROP (TONS)	_	REDUCED TILLAGE: CHISEL P.34 (TONS)	SOLL MGMT. GADUP LAND AXEA (ACRES)	EXISTING \$71L LOSS > T FACT39 (ACRES)
1 :13PLAVD \$46	87659.2 1 13.7	20410-4 84967-1	84967.1	93776.4	65538.9 13.4	11712.5	36532.1	0.50+4	6249.3
CROPLAND S45	107694.6	79129.8	104116.6	114866.3	104800.3 3.6	14350.2	44895.8	29178.2	21015.3
240PLAND S46	19190.4	11476.4	18483.0	26446.1 5.3	18462.2	19190.4	19190.1	3991.3	3602.8 5.1
CROPLAND 343	15222.1	15222.1	14693.4	16220.7	14756.6	6320.1	6320.1	17991.1	0 • 0
CROPLAND S46	8060.1	5902.1 1.6	1770.8	P591.6	7114.9	A060.1	8060.1	3902.3	622.7
CROPLAND 343	466.5 8 1.1	466.5	449.9	497.1	450.8 1.1	192.1	192.1	422.5	0.0
CROPLAND SMG	4948.0 9 1.2	1940.0	4785.7	5283.3	4821.U	4940.0	4940.0	4292.2	0.0
SAGPLAND SMG	30986.3 10 92.9	3.000.6	30032.9	33151.5 99.3	50271.2	4171.2 12.5	12971.2 30.6	333.5	333.6 92.9
SASPLAND	274419.2	138548.1	265319.4 4.0	292810.0	266877.9	68936.6 1.0	133001.9	65318.0	
VINEYARDS 440 ORCH.		000	(TONS) MATER (ACRES) AREA (TONS/ACRE)	WATER AREA ONLY	1957.1 (ACRES)	ACRES)			
STASSLAND AND PASTURE	151.3 JRE 1134.2 .12	131.3 (TONS) 1134.2(ACRES) .12 (TGNS/	ACRE)	JTTER LAND JSE AREA	4625.8 (ATRES)	ATRES)			
JOODL AND	589.3 5915.7 .10	589.3 (1 5915.7 (4	•						
SJAMARY T		. GROSS EROSION 265408.5 507604.4 1.9 3.6	507600.4	559390.7	-I	132747.8	254939.3	1 57919.4	
PERCENT F	PERCENT REDUCTION:	•	3.3	1.9-	2.1	11	51.4		

LAKE ERIE BASTEJATER NAVAGGWENT STUTV U.S. ARMY CORPS JF ENJINEERS. RUFFALJ DISTRICT Land management altepuatives : Fest management practice scenarics

COUNTY: 12 CRAMFORD& OMIO

NE VADA.CH

34SIN: BROKEN SWARP CREEK

\$31L LOSS \$71L LOSS \$7 FACTOR (ACRES)	1-	8 • 4 • 8 • 8	44.5	00	0.0	155.7 57.1						
	996043	20719.3	2700.3	\$125.7	1104.6	155.7	39771.7				0.646	
& - U	31632.5	37529.7 1.9	4981.7	2115.3	1181.8	3451.5	81194.7			•	84293.2	34.5
44K14U4 3E5UC110V TILLAGE (TOVS) (TEVS/ACRE)	10341.3	12269.0	4.681.7	2115.9	1181.8	1250.0	32049.7	ACRES)	ACRES)	*CRES)	33517.2	82.0
HINTEP CJVER (POID (TOYS)	7-868-4	44.178.7	+734.5 1.8	4.0 4.4	1147.3	8635.0 55.5	174209.1	630.1 (ACRES)	1853.3 (ACRES)	1472,7 (ACRES)	126394.5 346394.5	2.9
FALL PLJ#IVG CYLY (TOHS) (TONS/ACRF)	17559.9	02317.6	5186.R 1.9	5188.0 9.88.0	1255.7	9450.3 60.7	190658.3	JATER Jrea only	JTHER LAND JSE AREA	415SING DATA	197389.6	-6.2
SPRIMG PLOWING : JALY (TCMS)	.1	82635.4	4658.0	4659•0	1127.6	8 8 8 8 8 8 8 8	1794.2 171218.5 2.8 4.3	) ACRE)	ACRE)	(TONS) 41S (ACRES) (TONS/ACRE)	S FROSION 5900.2 177304.7 197389.6 186394.5 33517.2 84293.2 2.5 3.9 4.3 3.9 .7 1.3	\$ • <b>\$</b>
REDUCE SUIL SPRING LOSS IN T PLOLING AND EYISTING JALY (TONS) (TONS) (TONS)	41014.4	59692.2	4445.B	48A2.8	1181.8	667.2		0.0 (TONS) 0.0 (ACRES	53.8 (TONS) 775.9(ACRES) .97 (TUNS)			37.6
EXISTING POT-REDUCE SOIL SROSS LOSS TO T OF COMMENTAL SUBSTITUTE (TONS) (TONS) (TONS/ACRE)	40PLAND 72997-5 41014-4 69651-8 77559-9 7-16L8-4 10341-3	86604.7	4881.7 1.8	4882.8	1181.8	8894.4 57.1	179442.9 179442.9	0.0	53.8 775.9	3827.1	POTENTIAL 6 185802.0	0-0
350 074-	1-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	240PLAND S46 2	STG STG 3	SAG 4	CROPLAND S4G 5	SAG 10	CAOPLAND 179442.9 11	VINEYARDS AND ORCH.	31ASSLAND AND PASTURE	MOODL AND	SUMMAY TOTAL POTENTIAL GROSSOS 11	ייינדען גרפפי

LAKE ERIE NASTEBATER MANAGEMENT STUDY Land Management alternatives : Best Manig: Ment Practice scenarius

3451N: BROKEN SUORD CREEK	EN SUORD CRI	EEK NEVADA.OM	1,004	NOCO	CINC .TCOMAY. II .YINUCO	01HC •1CO			
LAND USE	EVISTING POT-R GROSS L EROSION A (TONS) (		EDUCÉ SOIL SPRING NOS TO T PLOWING NO EXISTING ONLY TOAS) (TONS)ACRE)	E G C C C	300		REDUCTION TILLAGE: TILLAGE CHISEL PLOM (130%) (100%)ACKE) (100%ACGE)	\$31L MGMT. 610J> LAVD AREA (4C4?S)	EA1571M6 531L LOSS > 7 FACTOR (ACRES) (1045/ACRE)
I	7810.3 1 11.0	2757.7	2757.7 7569.9 3.9 10.6	8351.0 11.7	7630.0	1051.4	1051.4 3244.3	111.7	711.7
CADPLAND SM6	5172.4	1932.7	3074.8	3392.0	3099.2 5.0	427.1	1317.8	622.7	353.A 6.5
CAOPLAND S46	17.9	17.9	17.3	19.1	17.5	***		22.2	30
240PLAND S46 5	157.4	157.4	152.6	158.3	153.8	157.4	157.4	111.2	00
LAND	2156.6	3.0	2090.3	2305.9	2106.9	290.3	895.9 40.4	25.2	
CROPLAND 13514.6 B.9	13314.6	-1	-1 12904.9 8.7	14236.3	13007.4	1935.6	5522.1	0.0641	
JINEYARDS Avd orch.	900	000	(TONS) A (ACRES) A (TONS/ACRE)	JATER ARZA ONLY	22.2	22.2 (ACRES)			
STASSLAND AND PASTURE	2.4 2.5 3.5 3.5	2.5 (TONS) 44.5(ACRES) .06 (TONS)	ACRE)	JTHER LAND JSE AREA	22.2	22.2 (ACRES)			
433DLAND	11.0 177.9 .06	11.0 (TONS) 177.9 (ACRES) .06 (TONS/A	1.0 (TONS) 4 7.9 (ACRES) .06 (TONS/ACRE)		2223.9 (ACRES)	(ACRES)		ISSING DATA 2223.5 (ACRES)	
11442Y TOTAL POTENTIAL GR: 3,1442Y TOTAL POSS 37.4	1 POTENTIAL 36637.4	- 5	11369.2 29695.6 2.9 7.5		29931.2	4475.8	12956.0	3936.3	
PERCENT REDUCTION:	_	65.9	3.1	6.9-	2.3	85.4	57.7		

LAKE ERJE WASTEWAYER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALD DISTRICT Land Management alternatives : "SEST Management Practice Scenarics

	בינים לפינים בינים								
TAND USE	EVISTING POT- GHOSS FROSION (TONS)	•	REDUCT SOIL SPRING LOSS TO T PLOVING AND EXISTING ONLY (TOVS) (TOVS) (TOVS/ACRE) (TONS/ACRE)	FALL PLOVING OVLY (TONS) (TONS/ACRF)	WINTER COVER CROVE (1945) (1945)	MAKINUM REDUCTION TILLAGE (TONS)	8-0-0	• E:	E415T145 531L LOSS 5 T FACTOR 44CRES) (TOMS/ACRE)
CAOPLAND S46 1		-	77221.7	45172.1 77221.7 A5910.0 74496.4 11392.7 45.5 4.5 8.0	74499.4	11392.7	34876.3	3676.5	9675.6 A.4
SAOPLAND S46	A9777.1	61534°9	#5719.1	2 * 60 # 50 0	47177.9	12596.1		21342.5	15204.4
CROPLAND S46 3	4681.7	4445.R 1.6	4658.0 1.7	5186.8 1.9	4759.3 1.6	1.84	1.981.7	2760.9	44.5 13.8
STOPLAND 4	1-006+	7.908. A.	8.976.3 8.	5207.1	4757.9	2123.3	2123,5	5149.8	6 C
CROPLAND S46 5	1339.2	1339.2	1280.2	1424.0	1391.1	1339.2	1339.2	1215.9	0.0
C40PLAND SMG IG	11051.0	733.9	19577.0 59.5	11756.2 66.1	10741.9	1550.4	4750.1	177.9	177.9
CLOPLAND	C10PLAND 192757.4	-	116726.6 194123.3 2.8 4.5	204894.5	187216-5	33983.	86817.3	41261.7	
VIVEYARDS And orch.	000	7 C D	(TONS) (ACRES) (TONS/ACRE)	JATER GREA ONLY	652.4	652.4 (ACRES)			
STASSLAND AVD PASTURE	56.3 828.4 .07	56.3 820.4(	56.3 (TOMS) 920.4(ACRES) .07 (TOMS/ACRE)	JTHER LAND JSE AREA	1875.5 (ACRES)	(ACRES)			
JOODLAND	1.0040 3.0004 9000		348.1 (TONS) 4005.6 (ACRES) 609 (TONS/ACRE)	41SSING DATA	3596.7 (ACRES)	(ACRES)			
UNHARY TOTA	SUMMARY TOTAL POTENTIAL (	. O	ON 199328.7	221765.9	202670.0	37146.0 T.	94217.9	ROSS FROSION 126526.1 199328.7 221765.9 202678.0 37146.0 94217.9 43784.4 2.5 4.0 4.5 4.1 .7 1.3	
ogiceut Reduction:	CTION: 0.0	39.4		-6.3	5.9	82.2	54.5		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY COKPS OF ENGINEERS, BUFFALO DISTRICT Land Management alternatives: Best Management Practice Scenarios

SASIN: LOL	bolf CREEK.WEST BR	BRANCH BETTSVILLE.OH	111E+0H	COUNTY		03 SENFER, OHIO			
TYND ORE	EAISTING POT-R GROSS EROSION (TONS)	T.REDUCE SOIL SPRING LOSS TO T PLOKIN AND EXISTING DALY (TONS) (TONS)	EDUCE SOIL SPRING OSS TO T PLOLING ND EXSTING DALY TONS) (TONS)	FALL PLOWING JALY (TONS) (TONS/ACRE)	4000-	1 K	* - U	SOIL MGMT. GROUP LAND AREA (ACRES)	
1	[	3713.6	3694.3	4186.9	3891.3	574.7	1724.0	1067.5	0.68
CROPLAND S46 2	36892.4	36.500.5	35024.4	39694.4	36892.4	5448.2	16344.7	12384.9	11050.5
CROPLAND 545	1.5	4290.1 1.6	4072.9 1.5	\$616.0 1.7	4290.1	4290.1 1.6	4290.1 1.5	2713.2	000
CROPLAND SHG 4	13531.3	13531.3	12846.2	14559.0	13531.3	9.994.9	6.994.3	14322.2	00
STOPLAND 343 5	315.2	315.2	299.2	339.1 1.2	315.2	315.2	315.2 1.1	289.1	
CROPLAND SMG B	21.4	23.4	20.3	23.0	21.4	9.5	in e	22.2	
SAG 10	2763.7	66.7 3.0	2623.8	2373.5	2753.7	18.4	1224.4	22.2	22.2
1	111111	-1	56581.1	66392.0	61705.4	17040.7	29902.3	50921.3	
VINEYARDS And orch.	0000	0.0 6.0 77	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER Area only	1156.5 (ACRES)	ACRESI			
324SSLAND And Pasture	11.5	11.5 (TOWS) 489.3(ACRES) .02 (TOWS)	ACRE)	JTHER LAND JSE AREA	2824.4 (4CRES)	ACRES)			
ONA JOOCA	60.3	60.3	_	41SSING DATA	4447.9 (4CRES)				
SJAMARY TOT	NT 1AL 14.9	GROSS EROSI 66180.4 1.8	0N 66568.9 1.8	75434.0	70114.5		34020-1	37+04-2	
PERCENT REDUCTION:	0.0 0.0	5.6	5.1	-1.6	0.0	72.3	51.5		

LAKE ERIF MASTENATER MANAGEMENT STUDY U.S. A4MY CORPS OF ENGINEERS. RUFFALO DISTRICT Land management alternatives : 46.5T management practice scenarios

	EKISTING S)1L LOSS > 7 FACTOR (ACRES) (TOVS/ACRE)	0.0					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		175.0	22.2	6341 175.7 197.5			1.7 (TOUS) 47551WG DATA D.D (ACRES) 59.5 (ACRES) .04 (TONS/ACRE)	237.1
	E - O - O -		10.7	175.7			• • • • •	177.4
DEK* OHLD	PLOWING COVER TEDUCTION CONT TILLAGE TOONS (TONS) (TONS) (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	52.4	10.7 F.	6341	0.0 (ACRES)	0.0 (ACRES)	D.D CACRES	6 6 6 8 6 8 6 8 8 9 9
COUNTY: 10 PANCOCK, OMIO	WINTER COVER CROP (TOYS) (TONS/ACRE)	388.7	25.1	413.8	0.0	0.0	0.0	415.5 1.8
NUCO		424.1	1.2	451.5	JATER AREA ONLY	JTHER LAND JSE AREA	TISSING DATE	453.2 1.9
4U* 3771	SPRING PLOWING 5 ONLY (TORS) (TONS/ACRE)	408.7 345.6	24.4	410.5	CRT	ACRE)	1.7 (TOMS) 4 E 19.5 (ACPES) .04 (TOMS/ACPE)	1.7
RANCH BETTSV	ARDUCF SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS) (TONS) (TONS/ACCE)	468.7	26.4	435.1	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/A	0.0 (TONS) 0.00 (TONS)	1.7 (TOVS) 39.5 (ACPES) .04 (TONS/A	0.00 E E E E E E E E E E E E E E E E E E
CREEK.WEST !	EXISTING POT. GROSS EROSION (TUNS) CTONS/ACRE)	408.7	1.2	435.1	900	5 5 5 5 6 6	1.1 39.5 60.	36.8 36.8 1.8
BASIN: VOLF CREEK-VEST PRANCH BETTSVILLE. NP		1	346 A	110PLANO	JINEYANDS AND ORCH.	SRASSLAND AND PASTURE	ONVIGE	SJAMARY TOTAL POTENTIAL SJAMARY TOTAL POTENTIAL 936-89 PERCENT REDUCTION:

LAKE ENIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENSINEEKS. BUFFALO DISTRICT Land management alternatives : Hest Management practice scevarios

1818: MOL	F CREEK+WEST	SASIM: MOLF CREEK-WEST BRANCH BETTSVILLE. DH	SVILLEADH	COUNT	COUNTY: 62 ALL IN BASIN	IN BASTN			
			6 16 7ACRED	FALL PLOMING ONLY (TONS)	LINTER COVER CROP (TONS) (TONS)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	x - 0	SOIL MGMI. SROUP LAND AREA (ACRES)	E4157146 \$316 LOSS > 7 F4CT3R 4A2RES)
1439LAND 346 1	3891.3	3715.6	3713.6 3694.3	4186.9	3892.3	574.7	1724.3	1067.5	0.9
C10PLAND S16 2	37301.1	36789.2	35430.0	46118.5 3.2	37281.0 3.6	5500.7	16569.8	12560.3	11050.5
SH6 3	1290.1	4290.1	4072.9	4616.0	4290.1	1290-1	1290.1	2713.2	00
CROPLAND S46	13531.3	13531.3	12846.2	14559.0	13531.3	5994.5	5.994.3	14322.2	90.
S46 5	315.2	315.2	299.2	339.1 1.2	515.2	315.2	315.2	289.1	0.0
CROPLAND S46 B	47.8	47.8	1.0	50.5	1.0	2 e e 2	200.5	5.44	0.0
CROPLAND S46 10	2763.7	3.0	2623.8 118.2	2973.6	2763.7	168.1	1224.4	22.2	22.2
1	-1	58673.9	58991.7	66845.6	62119.1	17105.9	30079.5	31319.3	E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JIVEYARDS And Orch.	999	200	(TONS) JAI (ACRES) ARE (TONS/ACRE)	dater Area only	1156.5 (ACRES)	ACRES)			
SRASSLAND And Pasture	11.5	11.5 (TONS) 489.3(ACRES) .02 (TONS)	ACRE)	JTHER LAND JSE AREA	2624.4 (4CRES)	ACR ES J			
4338LAND	62.1 1685.3	62.1 (		41SSING DATA	4447.9 (ACRES)	ACRES)	•		
44A4 TOT	NTIAL 50.7	6ROSS EROSI 66619-6	66980.0	75884.0 73526.4 19479.3 34192.	79526.4	19479.3	34192.5	37541.5	
PERCENT REDUCTION:	UCTION: 0.0	3.6	5.1	-7.6	<b>.</b>	12.4	\$1.5		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF EVSIVEERS. BUFFALD DISTRICT Land Management alternatives : Best Management Practice Scenarics

104 :11516	SESIN: VOLT CRECKERS! ON								
. NVD USE	EXISTING POUR GROSS FROSTON (TONS) (TONS)		i IG VACRE)				W - U - U	\$315 4641. \$433 LA4D A3E4 (ACRES)	_
SYS 1			2444.4 2809.4		-I	0.764	1311.1	# # # # # # # # # # # # # # # # # # #	195.7
C10PLAND S46 2	18688.6	2°838°84	46223.4 5.0	52386.5 3.4	48688.6 3.1	7190.3	21570.7	15478.7	15279.5
SAG 3	5A21.5 1.6	5821.5 1.6	5526.A 1.5	6263.7	5821.5 1.6	5821.5 3.6	5621.3	3586.8	00
STOPLAND 4	3677.9	3677.3	3491.7	3957.2	3677.9	1629.5	1629.5	4097.0	
STOPLAND ST	433.5	431.6	8.50 0.4	1.2	431.6	431.6	431.5 1.1		
CROPLAND S46 8	1.0	67.8	1.0	72.9	67.R 1.0	9.9E	20.0	66.7	
CROPLAND	61646.7 2.5	59297.0	58525.5 2.4	- I	61646.7	61646.7 15539.9 2.5 .6	30794.6	24549.9	
VINEYARDS AND ORCH.	• • •	0000	(TONS) JA: (ACRES) JR: (TONS/ACRE)	AATER Irea only	578.2 (ACRES)	ACRES)			
34ASSLAND Avd pasture	23.5 667.2	23.5 (TONS) 667.2(ACRES) .00 (TONS)	ACRE)	JTHER LAND JSE AREA	2041.1 (ACRES)	ACRES)			
MODOLAND	81.6 1862.9 . 64			WISSING DATA	22708.9 (ACRES)	ACRES)	•		
STREET TOT	ENT IAL 197.6		107761.1	122103.1	113497.8	122103.1 113497.8 28755.0 56792.6 2.5 2.5 2.3 .6 1.1	56792.6	**************************************	
*ERCENT REDUCTION	0.0	3.8	5.1		0.0	74.7	50.3		

LAKE ERIE WASTEWATER MAMAGEMENT STUDY
LAND MAMAGEMENT ALTERMATIVES : REST MANAGEMENT PHACTICE SCENARIOS

345IN: MONEY CREEK	T CAEEK	MOUTH		AUC:	COUNTY: 02 CRAL	D2 CRAWF33D+ 3HIO			
LAND USE	EXISTING POT- GROSS EROSION (TONS)		SPRING PLOWING G ONLY (TONS) (TONS/ACRE)	FALL FAULD BLOWING DNLT (TONS) ACRE)	EJNTER COVER CROP (TONS)	UNITE MAXIMUM REDUCED COVER REDUCTION TILLAGE: CROP TILLAGE CHISEL PLOM (TONS) (TONS) (TONS) (TONS)	REDUCED TILLAGE: CHISEL PLOM (TOMS)	SOIL MEMT. GROUP LAYD AAEA (ACRES)	ER ISTING SDIL LOSS > T FACTOR (ACRES)
243PLAND 546 1	10PLAND +3093.4		41118.5	24809.3 41118.3 45786.8 5.0 8.2 9.2	-	41836-5 6104-9	18673.0	18673.8 4991.5	4991.5
CROPLAND S46 2	66158.8	47564.3	63412.8 3.8	70612.5	64520.5 3.8	9415.0	28798.3	16803.1	12147.7
SASPLAND	5+94-8	5496.8	5244.9	5840.3 1.8	5336.5 1.6	1.1	5496.9	3261.8	00
C10PLAND SNG 4	9.883.9	5685°.9	5425.3	6041.3	5520.1	2463.9	2463.9	6355.5	99
SROPLAND S43	748.5	748.5	714.2	195.3	126.7		748.5	190.1	00
CAOPLAND S46 10	554. 56.0	39.8	529.1 53.4	589.2	538.3	78.6	240.3	6.6	6.6 56.0
1I 310PLAND	122037.9	84344.3	-1	129665.4	118478.6	2+307.7	56422.1	32212.5	
VINEYARDS And orch.		0000	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER Area only	266.9 (ACRES)	ACRESI			
SRASSLAND And Pasture	17.1 316.3	17.1 (TONS) 316.3(ACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	1591.4 (ACRES)	ACRES)			
MOODLAND	220.7 3271.7 .07	220.7 (TONS) 3271.7 (ACRES	13.7 (ACRES) 41 	ISSING DATA	553.5 (ACRES)	ACRESI			
SJHHARY TOTAL	NT1AL 66.2 3.4	640SS EROSION 85H89.8	118486.4	055 E20513V 18946.4 131911.6 120551.H 24925.U 57535 2.4 3.3 3.5 3.6 5.5	-I 123551.h 5.5	2492540		35354.3	1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
PERCENT REDUCTION:	UCTION:	30.6	<b>9.</b>	-6.2	2.5	19.9	53.7		

LAKE ERIE WASTEVATER NAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, RUFFALO DISTRICT Land Hanagenent alternatives : Fest Management Practice Sctvanics

Ĺ.,

	E4157146 5314, L055 5 7 FACT 94 45.RES1 (1045/ACRE)	2040.9	11930.2	• • •	<b>9</b> 6	<b></b>	e e	120.3	I					
	SOIL MENT. GROUP LAVO AREA (ACRES)	4121.7	35454.5	5970.1	1156.3	1037.8	139.4	***	47928.5				S E 205134 1913.0 172527.4 195430.1 181648.6 36919.3 86871.2 55903.0 2.3 5.0 3.4 3.2 .6 1.3	
	REDUCED TILLAGE: CMISEL PLOW (TOWS)	12945.4	57721.5 1.6	9445.2	422.2	1009.5	62.3 .5	2721+3 55+1	84227.2				86971.2	52.2
A+ 2H13	MAXIMUM REDUCED REDUCTION TILLAGE CMISEL PLOW (TOMS) (TOMS/ACRE) (TOMS/ACRE)	31195.9 2M993.8 +281.9 12945.4 7.6 7.0 1.0 3.1	19240.5	9445.2	4-22-2	1009.6	62.3	18.4	35368.6	ICRESI	ICRESI	ICRES)	36919.5	19.1
Y: 65 SEMPCA. JMED	Fall WINTER ONLY COER (170%) (170%) (170%) (170%)	2 N 9 9 3 . 8	139285.6	9445.2	953.6 8.	1009.6	1.0.6	124.3	174969.4	642.5 (ACRES)	3083.9 CACRESP	1245.4 (ACRES)	181686.6	9 • 0
SAININGS	PALL PLOWING ONLY (TONS) (TONS/ACRE)	31195.9	146146.7	10162.5	1025.4	1686.3	151.3	6508.0 155.8	1+0+10-2	AATER ARSA ONLY	JTHER LAND JSE AREA	41SSING DATA	195430-1	-7.6
	SPRING PLOWING 1 JALY (13VS) (TONS/ACRE)	27525.8	123688.4 3.5	#967.0 1.5	8° 406	45 £ .	133.5	5930.5	-1	(ACRES) JATER (ACRES) AREA (TONS/ACRE)	ACRE)	19.9 (TONS) 41S 15.6 (#CRES) .09 (TONS/ACRE)	172527.4	ъ. В
#10C#	REDUCE SOIL SPRING LOSS TO T PLONING AND ETISTING JULY (TONS) (TONS/ACRE)	14270.3	102316.2	1.6	953.0	1009.6	140.5 1.0	20 · 20 · 20 · 20 · 20 · 20 · 20 · 20 ·	18285.2 2.7	0.00	62.4 (TONS) 523.9(ACRES) -12 (TONS/			27.4
CREEK	FRISTING POT-PETENOSS LOS EROSION AND (TOMS) (TOMS) (TOMS) (TOMS)	28493.6 14270.3 2725.6 7.0 3.5 6.7	130285.6	9995.2	958.0	1009.6	100.6	6141.6	176969.4	900	62.8 523.9	679.9	POTENTIAL 6 181688.6	0.0
BISTN: HONEY CREEK	) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I	SAG 2	S4S 3	346 4	CAOPLAND S46 5	CAOPLAND S46 8	SASPLAND SHG 10	CROPLAND 176969.0 12	FINEYARDS 443 DRCH.	SRASSLAND And pasture	4300LAN0	3.2 14424 1078L POTENTIAL GROSS 1181 686.6 1	PLACENT REDUCTION:

LAKE ERIE GASTEMATER MANAGEMENT STUUY Land namagenent alternatives : best management practice scenarios

3451N: MONEY CREEK MOUTH LAMB USE EXISTING PGT-REGUCE SOIL SPRING FALL	MOUTH SPRING	SPRING	FALL	NCCS	COUNTY: ON HURO LINTER	DA MURON, DAID	AEDUCED	SOIL MEMT.	EKISTING
ACS LOSS TO T PLONING MOSS AND EXISTING ONLY TONS) (TONS) (TONS) TONS/ACRE) (TONS/ACRE)	AND EXISTIN 1 TOWS! A CRE!	CONTROL PLONING PLON (TON) (TON) (TON) (TON)	100 100 100 100 100 100 100 100 100 100	PLOWING ONLY (TOWS) (TOWS/ACRE)	COVER CROP (TONS) (TONS/ACRF)			GABUP LAND AREA (ACRES)	S31 1055 531 1055 531 1055 1 1085 1 1085
3162.9	3162.9	5917.1		6506.3	5941.6	•	2602.5	532.5	4.564
11387.3 10368.5 10847.2 3	10847.2		•	31927.4	10692.2	1575.3	4771.0	5*6+0	3049.6
95.1 88.9 90.5 2.4 2.2 2.3	•	90.5		99.6	96.9	95.1	95.1	39.5	⊕ va ⊕ m
1746.0 1746.0 1663.2 1	1663.2		-	1828.6 1.5	1670.1	731.5	731.5 .6	1255.5	# C
1540.5 1546.5 1467.5 10	1467.5		Ä	1613.6	1473.5	1540.5	1540+3	1690.2	
30PLAND 20988.6 16906.8 19985.5 21975.7 3.1 2.8 2.8 3.1	16906.8 19985.5 2.4 2.8	19985.5	2197	3.1	20068.3	4901.7	9740.6	7067.2	
0.0 0.0 KIDNS) JATER 0.0 0.0 LACRES! KREA ONLY 0.00 TONS/ACRE?	0.0 (TOMS) (ATER 0.0 (ACRES) (REA ONL) 0.00 (TOMS/ACRE)	ONS) JATER ICRES) AREA ONL! IONS/ACRE)	TER EA GNL1		197.7 (ACRES)	ACRES)			
38ASSLAND 2.5 2.5 (70NS) JTHER LAND 34D PASTURE 79.1 79.1(ACRES) JSE AREA .03 .03 (70NS/ACRE)	ACRE)	ACRE)	HER LAI E AREA	Q	1179.2 (ACRES)	IACRESI			•
		CRES) 41551NG CRES) ONS/ACRE)	SNISS	DATA	> ****	49.4 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS FROSTON 21166.5 17067.3 20105.2 22107.7 20244.5 4487.0 9956.5 2.0 2.0 2.5 2.0 2.5 2.5 2.5 1.2		26165.2 2216	2216	2.6	23248.5 2.5	487.0	9956.5	7996.3	
7.** 19.4 4.9		~;			17) • 0	76.9	53.4		

LAKE ERIE WASTEWATER MAMAREPENT STUDY Land Mamagement Alterwatives : Hent Mamagement Phagetice Scenarion

BASIN: HCMEY CREFK	T CREFK	#100#		<b>3</b> 000	CHUNTY: 11 EY MPOT+ OHIO	POT. 0410			
. 140 USE	EVISTING POTARI GROSS EQOSIDA (TOMS)	40266	INDUCE SCIL SPRING INS 10 T PLO-ING D EXISTING INLY ONS) (TONS) ONS/ACRE) (TONS/ACRE)	·	1000 1000 1000 1000 1000 1000 1000 100	FAKE REDU TILL GTON	FEBUC TILLA CHINE CTONS CTONS	SOIL MGWT. SASUP LAVO AREA (ACKES)	FRESTIUS 531 LOS 531 LOS 541 L
1	136.1 136.1 6.9		P9.0 131.9	- [	132.9	1	56.3		E • • • •
SASPLAND S	1630.5	1373.6	1500.3	# " " " " " " " " " " " " " " " " " " "	1592•9 3•2	219.5	677.5	504.1	316.3 3.8
CROPLAND S46 4	294.4	294.4	285.3	314.7	297.6	122.3	122.5	197.7	0.0
STOPLAND SYG 5	13.1	13.1	12.5	1.0	12.7	13.1	23	9 · 9	
Tabland	1	1770.1	2910.1	2217.6	2026.1	373.2	-I	731.5	I
VINEYARDS 445 ORCH•	000	9000	0.0 (10NS) 4A 0.0 (ACRES) ARI	JATER AREA ONLY	0 0	D.O (AC9ES)			
GRASSLAND And Pasture	000	0.00	0.0 (TONS) 0.0 0.0(ACRES) JS(	JTHER LAND JSE AREA	6.6	9.9 (ACRES)			
JOOFFAND	39.5	2.6 (TONS) 39.5 (ACRES	2.6 (TONS) 413 39.5 (ACRES) .07 (TONS/ACRE)	4 ISSING DATA	19.8 (ACRES)	ACRES)			
344ARY 10TA	SJ4MARY TOTAL POTENTIAL GRO 2130-0 2-7	SJYWARY TOTAL POTENTIAL GROSS ERSEIN 2180-0 1818-2 2-7 2-5	2064.4	2277.2	2080.8	385.55 5.55	894.2 1.1	SS EROSION	
PERCENT MEDUCTION:	O.O.	14.6	3.1	6.9-	2.3	91.9	50.0		

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		6.4%	27843.8	6.6	00	a o	00	59.3				•	
	SOIL MEMI. GROUP LAND AREA (ACRES)	3765.6	56211.5	9271.1	8965.0	3526.7	138.4	59.3	61939.9				351746.3 324521.6 67118.1 155137.3 102344.5 3.2 3.2 .7 1.5
	REDUCES TILLAGE: CMISEL PLOW (TOMS) (TOMS)	54179.2 3.5	91968.5	15037.1	5739.3	5311.7	62.3	2961.2	151259.9				155137.3
62 ALL IN BASIN	MAKINUM KEDUCTION TILLAGE (TONS) (TONS/ACKE)	11264.3	30450.3	15037.1	3759.9	3311.7	62.3	985.5 16.6	6+851.1	ACRES)	ACRESI	ACRES)	67118.1
	LINTER COVER CROP (TONS) (TONS)	76901.8	207291.1	14872.6	843648	3222.6	140.6	6679.9	317542.4	1167.6 (ACRES)	£464.3 (ACRES)	1666.1 (ACRES)	324521.6
: NAVEC	FALL PLOUING ONLY (TOYS)	3.6 3.6 3.6	0.0	10102.5	9210.3	3509.1 1.0	151.3	1197.2	344258.7	JATER SREA ONLY	JEGR LAND JSE AREA	FISSING DATA	351746.3
	SPRING PLOUING 16 ONLY (TONS)	74692.9	199529.1 3.5	14562.4	8276.6	3152.8	133.5	107.2	31304.4 306449.0 2.6 3.5	(TONS) JATER (ACRES) AREA (TONS/ACRE)	ACRE)	(104S) 41S (ACRES) (TONS/ACRE)	315221.3
HINCH	LOSS TO T PLOUSING AND EXISTING ONLY (TONS) (TONS) (TONS)	42331.5	161622.5	15030.9	8679.4	3311.7	140.6	3.2	1 04	0.0	82.5 (TONS) 919.2(ACRES) .09 (TONS)		236675.4 31322.5 3.1
CREEK	ENISTING POT-R GROSS L EROSION A (TONS) (	78434.9 42331.5 74642.9 83634.3 76904.8 11264.3 54179.2 1 8.0 4.3 7.6 8.6 7.9 1.2 3.5	209762.2	15037.1	8679.4	3311.7	148.6	6696.1	322062.0	0000	82.5 919.2 .09	955.8 11317.4	1
345IN: MONEY CREEK		S46 1	CROPLAND S46 2	CROPLAND 345 3	CROPLAND 346	CROPLAND S45 5	CROPLAND S46 8	CROPLAND 343 10	CROPLAND	VINEYARDS And orch.	SASSLAND AND PASTURE	JOODL AND	3.244ARY TOTAL POTENTIAL GROSS EROSIO: \$29125.5 236.75.4 3.2 3.2 2.3 2.2 2.3

LAKE ERIE MASTEWATER MANAREFENT STUDV U.S. ARTV CORPS OF ENGINEERS. BUFFALO DISTAICT LAND MANAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCEVARIOS

		11111111111111111111111111111111111111	12147.7	90		0 <b>8</b>	0°95	I					
	SOIL MEMT. SASJP LAND AREA (ACRES)	6104.9 18673.3 4931.5	15405.1	3261.9	53555	1-06-	B.	32212.5			•	055 EROSION 05889.8 118486.4 131911.5 120551.7 24925.0 57535.9 56554.0 2.4 3.5 5.6 3.5 1.5	
	REDUCED SOIL TILLAGE: 34334 CHISTL P.3W &*E4 (TOWS) (ACR)	18675.3	24798.9 1.1	5496.9	2463.3	5	240.3	56422.1			•	57535.3 1.5	53.7
02 CRANFORD. OHIO		_	9415.0	5446.8	2463.9	748.5	78.6	07.7	•	ACRES)	ACRES)	24925.0	70.0
COUNTY: 02 CRAN			64520.4 3.8	5336.5	5520.1	726.1	538.3	-111 118478.5 243 3.7 3.7 266.9 (#CRES)		1591.4 (ACRES)	553.5 (ACRES)	120551.7	2.4
10U	L C	-I	76612.4	5940.3 1.8	6041.3	195.5	589.2 59.5	129655.3	AREA ONLY	JT4ER LAND JSE AREA	ISSING DATA	131911.5	-6.2
. 231	SPRING PLD4ING G ONLY (TONS)	41117.8	65412.# 3.8	5244.3	5425.3	714.2	529.1	11644.6 3.6 3.6	ACRES	ACRE)	10.7 (ACRES) 41: -07 (TOMS/ACRE)	118486.4	4.4
AT RT. 231		24469.3	47564.3 2.8	5406.A	5685.9	7.88.T	39.5 4.0	84344.3 2.6		17.1 (TOVS) 316.3(ACPES) .05 (TONS)			8 - P 2
r CREEK	GROSS LOSTON A LETONS)	43093.4	8 • 8 5 <b>9</b> 9 9 .	5496.8	5685.9	748.5	354.5 56.0	122037.9 3.8	000	17.1 316.3	220.7 3271.7	POTENTIAL G 124166.2	6 . EOT
34SIN: HONEY CREEK		110PLAN0 546 1	SAS 2	C10PLAND SWG 3	S4S 4	CROPLAND S46 5	S1SPLAND S1S	1	AVD ORCH.	34ASSLAND AND PASTURE	400DLAND	SUMMAY 101AL POTENTIAL GROSS ENGSION 124166.2 85889.8	PERCENI ACUUL

LAKE ERZE MASTEWATER MANAGEMENT STUDY U.S. AKRY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives: Best Management Practice Scenarios

# : # : # : # : # : # : # : # : # : # :	SASING MOMEN CREEN								
-440 USE	EXISTING POT REGROSS LICKSTON A LICKSTON (TONS) (TONS) (TONS)		PLOUING MS ONLY (TONS)	~	3 (, 0 = -	E & ~ ~ ~ .	AXINUM REDUCED SDIL MGM EDUCTION TILLAGE: 613JP LA ILLAGE CHISSL PLOU AREA TONS: (TONS) (ACKES) TONS/ACKE) (TONS/ACRE)	SOIL MENT. GROJP LAYD AREA (ACKES)	ERISTING S)1
140PLAND 546 1	36453.4		18188.8 34007.7 3.5 6.7	39222.ú 7.6	36423.4	5383.4	16150.2		
240PLAMD 2	116996.1	112991.2	139553.6	156160.7	146996.4	21708.5	65125.1	58984.2	14636.2
CROPLAND S43	9991.5	9991.5	9485.6 1.5	12750.3	9991.5	9991.5	9991.5 1.5	6316.8	• •
CROPLAND SHG 4	1111.0	1111.0	1054.4	1195.4	1111.6	492.2	492.2	1354.1	90
SROPLAND S46	1388.8	1388.6	1518.4	1494.2	1586.8	1388.5	1589.3	1.53.8	• • •
SMG B	150.7 8 1.0	150.7	143.0	162.1	156.7	66.7	66.7	146.5	
S46PLAND S46 10	7817.0	217.5	1421.2	8410.7 121.5	1617.0	1154.4	3463.2	69.2	69.2 115.8
SAOPLAND	203908.8	143959.5	193564.3	219395.4	-1	-1	96677.7	53424.1	
JIVEYARDS And Orch.	9 0 0 9 0 0	3 0 0 3 3 7 6	(TONS) (ACRES) (TONS/ACRE)	AATER Aria daly	721.5 CACRES)	ACRES)			
348SLAND 449 pasture	72.3 RE 662.2	7 99	72.3 (19%5) 3F 662.2(ACRES) 1S .11 (TONS/ACRE)	JTHER LAND JSF AREA	3321.1 (ACRES)	ACRES)			
43301440	803.3 8223.6 10			4185146 DATA		ACHES)			
34MA2.T (			195144.7	225562.1 3.5	_	204/2.1 42350.9 99903.3 3.5 7.	99905.5	63912.5	•
EACENT RI	PEACENT REDUCTION:	29.3	5.0	-7-6	J•¢	79.9	52.4		

LAKE ERIE BASTEMATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT LAMD HAMAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

	EX157146 \$316, LOS\$ > 7 Factor (ACRES)	632.6	3.848 8.8	9.9	<b>0.</b> 0	00					
	SOIL MEMT. SROUP LAND 44E4 (ACPES)	632.5	3449.5	39.5	1255.3	1590.2	7067.2			52.6 (TOMS) 415SIMG DATA 49.4 (ACRES) 60.6 (ACRES) .07 (TOMS/ACRE)	7996.3
	TILLAGE: CMISEL #.34 (TONS)	2602.5	4772.0	95.1	731.5	1540.3	9748.5			•	9856.6
N. 0H10	I &	859.3 1.4	1575.3	95.1	731.5	1540.5	4801.7	ACRES)	ACRESI	ACRES)	4867.0
COUNTY: 04 PUPON. DHIO	3013	5941.6	10892.2	90.9	1670.1	1473.5	20068.3	197.7 (ACRES)	1779.2 (ACRES)	49.4 (ACRES)	20248.5
NOCO		- I	11927.4	99.6 2.5	1828.8	1613.6	-1	JATER Area duly	JTHER LAND JSE AREA	4 ISSING DATA	22167.7 2.8 -4.7
. 231	REDUCE SOIL SPRING LUSS TO T PLOJING AND EXISTING ONLY (TONS) (TONS)	5917.1	19847.2	99.5	1663.2	1467.5	19965.5	(TONS) JA (ACRES) SR (TONS/ACRE)	ACRE)	12.6 (TONS) 41 0.6 (ACRES) 07 (TONS/ACRE)	20165.2
AT 91. 251	•	3162.9	10368.5 3.0	88.9 2.2	1746.0	1540.5	16906-8 2-4	8.00	2.5 (TOMS) 79.1(ACRES) .03 (TOMS/	•	170
Y CPEEK	EXISTING POT- GROSS EROSION (TONS)	1.25LAND 6211.7 546 1 9.8	11387.3	95.1	1746.0	1540.5	1	900	79.1	32.6 300.6	SJAMARY TOTAL POTENTIAL G 2186.5 2.6 2.6 2.6 2.6 2.6
BASIN: HONEY CREEK	LAND USE	14.3PLANO 346 1	CAOPLAND S46 2	SAGPLAND SAG 3	CROPLAND S46	210PLAND S4G 5	STOPLAND	JI VETARDS AND ORCH.	JAASSLAND AND PASTURE	ROODLAND	SJAMARY TOTAL POTENTIAL 2166.5 2-6 256.5 260 260 260 260 260 260 260 260 260 260

LAKE ERIE WASTEWATER NAMAGENEWT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALD DISTAICT LAND NAMAGENEWT ALTERNATIVES ; BEST MANAGEPENT PRACTICE SCENARIOS

MASIN: HONEY CREEK	NEY CREEK	AT RT. 231	231	COUNT	COUNTY: 11 AYANDOT. DHID	01HC -1CC			
TAND USE	EXISTING PO GROSS EROSION (TONS)	EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO T PLOUIN FROSTON AND EXISTING ONLY (TOWS) (TOWS) (TONS)	EDUCE SOIL SPHING OSS TO T PLOWING MD EXISTING ONLY TONS) (TONS)	F		MAXIMUM REDUCTION TILLAGE (TOVS)	TICLAGE: CHISEL P.JU (1794S)	501L M6NT. 540JP LAVD AREA (4C42S)	E4151146 5314 .055 5314 .055 7 F4CT 38 (40765)
1-20PLAND 343 1	267.1	207.1 148.3 278.3 1.3 3.6 7.0	278.3	307.0	_	280.5 38.6 119.5 39.5 7.1 1.0 3.0	119.5	39.5	39.5
CROPLAND SHG 2	1841.6	1492.2	1784.9	196941	1799.1	247.9	765.3	5+3.6	355.8
CROPLAND S45	294.4	294.4	285.3	314.7	287.6	122.3	322.5	1,191	
CROPLAND S46 5	13.1	13.1	12.6	0 + · r	12.7	13.1	13.1	6.6	
SADPLAND	111111	1948.0	2561.1	2604.8 3.3	2379.9	421.9 •5	1019.7	7-062	
JINEYARDS And Orch.		0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/A	CRES	AATER Area only		9.v (ACRES)			
31ASSLAND AND PASTURE	6.7 19.1	6.7 (TONS) 79.1(ACRES) .08 (TONS)	ACRES	JTHER LAND JSF. AREA	49.4 (ACRES)	ACRES)			
430DL AND	# # # # # # # #		.3 (TONS) 41 9.9 (ACRES) .03 (TONS/ACRE)	41SSING DATA	29.7 (ACRES)	ACRESI			, , , , , , , , , , , , , , , , , , ,
CI KEWHIE	1	68085 68085	2448.1	2106.0	2467.5	443.4	1061.4	EÁGSION 2448-1 2706-6 2467-5 443-4 1061-4 989-4 2.2 2.7 3.0 2.7 .5 1.2	
PERCENT REDUCTION:	OUCTION:	20.0	3.1	6.9-	2.3	82.4	59.3		

LAKE ERIE WASTEVATER MAMAGEWENI STUUV U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT Land management alternatives : Pest Management Practice scenarius

HOM :MISTE	HOVEY CREEK	AT PT. 231	. 231	1Marc	CHUNTY: 62 ALL IN PASIT	IN RASIN			
LAND USE	EXISTING POGROSS FROSION (TONS)	EDUCE SOIL OSS TO T ND EXISTIN TOWS/ACRE)	SPATUE PLOWING CONLY (TONS)	200	30000	MAXIMUM REDUCTION TILLAGE (TOWS) (TOWS/ACRE)	REDUCED 71LLAGE: CMISEL PLO4 (TONS) (TONS/ACRE)	IL MGMT. DUP LAND EA CRES)	5415T1N6 591L LOSS 57 F FACTOR (ACRES) (TONS/ACRE)
SAG 1	46045.5 7.9	46229.4	-1 81921.2 7.6	91A21.9 8.5	7.P	A4511.5 12386.3 37545.9 7.8 1.1 3.5	37545.9	13443.0	9065.8
CROPLAND S46	226684.1 3.8	172416.0	215596.3	242669.6	224208.1 3.8	32346.6	99459.7	59700.6	N. 9870 N
SAGES	15583.3	15577.2 1.6	14821.0	16690.3	15418.9	15583+3 1+6	15583.3	9517.5	e.e
CROPLAND SWG 4	8837.3	8837.3 1.0	9.95.48 9.9	9380.3	8588. 8.	39 09 . 9	3409.9	3162.7	0.0
310PLAND S46 5	3690.9	5600.4	3512.9	3917-1	3602.7	3590.9	3690.3	3943.9	60
CROPLAND S4G 8	150.7	159.7	143.0	162.1	150.7	66.7	1.99	100.3	0°C
CROPLAND SMG 10	8371.5 105.8	257.0	7950.3 100.5	8999.3 113.4	8355.3 105.6	1233.0	3703.5	79.1	79.1 105.8
J	1	1	332375.2 3.54	373541.2	34435.4	1-51169	163959-3 1-3	[	
VINEVARDS AVD ORCH.	9 6 0	0.00	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER ARCA ONLY	1186.1 (ACRES)	ACRESI			
GRASSLAND And Pasture	98.6 1136.7	98.6 (10NS) 1136.7(ACRES) .09 (10NS/	ACRE)	JTHER LAND JSE AREA	6741.0 (ACRES)	ACRES)			
JODEAND	1076.9	12305.8 (ACRES 0.09 (TONS)		41SSIVG DATA	2135.0 (ACRES)	ACRES)			
SJHMARY TOTAL POTE 3578 PERCENT REDUCTION:	SJAMARY TOTAL POTENTIAL SURMARY TOTAL POTENTIAL SUPSESSES SUBSESSES SUBSESSE	SJAMARY TOTAL POTENTIAL GROSS EROSION 397537.3 2532792.0 340210.0 34.3 2.3 2.3 3.1 95RCENT REDUCTION: 6.0 29.2 4.8		5P2299.9 352919.0 72307.6 16A330.2 10907 3.5 3.5 3.2 .7 .7 1.5	352419.0 352419.0 3.2	72307.6	16A330.2 1.5 52.9	2.5	

LAKÉ ERIE MASTEWATER NAMAGEMENT STUDY Land management alternatives : Eest Management practice scenarios

		1.3 4358.9 1.3 A.5.5	11169.11	\$	50	0.0	9.9 5.6 0.36	11					
	SOUP LAND AREA (ACTES)	4358.9	15557.7	3024.5	6316.0	69	•	29359.0				33764.4	
	REDUCED TILLAGI: CHISEL PLOW (TOMS)	15622.5	26665.3	5117.5	2452.4	6.39.4	248.5	50737.5			••	51655.3	
FORD. OHIO	JUNER 44KIMUM COVER REDUCTION CROP TILLAGE (TONS) (TONS/ACRE) (TONS/ACRE)	34399.7 38305.3 35000.5 5107.4 15622.5 7.9 8.8 8.0 1.2 3.5	8711.5	5117.5	2452.4	639.4	78.6	22112.8	ACRES)	ACRES)	ACRES)	S EROSION 6563.6 106190.5 118221.0 108041.2 22541.3 51655.3 33764.0 2.3 3.1 3.5 3.2 .7 1.5	
COUNTY: UZ CHAUFORD, OHIO	JINTER COVER CROP (TONS) (TONS/ACRE)	35600.5	59740.6 3.8	1968.2	54945	620.7	538.3	106362.6 3.6	257.0 (ACRES)	1561.7 (ACRES)	454.7 (ACRES)	108041.2	
Cons	FALL PLOWING ONLY (TONS) (TONS/ACRE)	38305.3 8.8	65381.4	5437.3	6013.1	679.4	589.2 59.5	116405.7	WATER Area only	JTHER LAND JSE AREA	415SIVG DATA	118221.4	
E .0H			58715.0	4882.9 1.5	5400.0	610.1	529.1	104536.8 116405.7 3.5 3.9	) ACRE)	ACRF.)	(TONS) 4 IS (ACRES) (TONS/ACRE)	106190.5	
MELNORE . OH	LOSS TO T PLONING AND EXISTING ONLY (TONS) (TONS)	36852.1 21646.4 B.3 5.0	44199.5	5117.5	5659.4	6.39.4 6.9	39.5	7301.7	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	14.3 (TONS) 296.5(ACRES) .05 (TONS)			
HONEY CREEK	EXISTING POT-REI GROSS LOS EROSION ANI (TONS) (TO		61535.4 4.0	5117.5	5659.4	4.96.9	554.5		0.00	14.3 296.5 .05	209.3	NTIAL 80.5 3.3	
SASIN: HOME	asn on-	I CROPLAND S43 1	SAG SAG 2	CROPLAND 343 3	CROPLAND SMG +	CROPLAND S46 5	SAOPLAND S46 10	CAOPLAND	VINEYARDS AVD ORCH.	33ASSLAND A4D PASTURE	JOOPLAND	SJ4MARY TOTAL POTENTIAL 111280.5 PERCENT REDUCTION:	

LAKE ERIE WASTEMATER MAMAGEMENT STUNY Land Management alternatives : Pest Management Praktice Coevarius

SESTA MONE	MUNET CHECK								
	EXISTING POT- FROSS EROSION (TONS)		REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS)	FALL PLOWINS JALY (TONS) (TONS/ACPE)	CACER CACER CACER CACER TO	MAKTAUM REGUCTION TILLAGE TTONS) (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW (TOWS)	SOIL MEMT. SROUP LAND ANEA (ACRES)	12154126 5011 LOSS 5 7 TACTOR 5 CACRES 10045/ACRES
CROPLAND S46 1	17266.4	9804.2	16386-4 5.6	1 H571.3 6.5	17266.4	2549.0	7647.0		1541.5
SADPLAND 345	109849.9	89028.9	104297.9	118192.8 3.8	104649.9 3.6	16222.6	4,8567.7 1.5	30*68.4	9192, S
CROPLAND S#3	8727.3	8727.3 1.6	R285.4 1.5	9390-1	9727.3 1.6	4727.3	8727.5	4 45 65 65 65 65 65 65 65 65 65 65 65 65 65	
38 OPLAND	917.0	817.0	775.7 9.	19.18	917.0	362.0	362.0	3.9.9.	000
CROPLAND 345 5	782.6	142.8	743.2 1.0	1.1	142.8	782.8 1.0	162.9	771.0	0.0
CROPLAND S46 8	146.6	140.6	133.5	151.3	1.0.6	62.3 .5	62.3	138.4	60
CROPLAND S4G 10	3685.0	3.0	3498.4	3964.R 133.3	3685.0	544.2	1632.5	29.7	29.7
C:OPLAND 141263.0	1+1263.0 3.4	1093A9.8 2.7	134110.5	151991.5	141253.0	29250.2	67881.7	41237.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FINEYARDS AND ORCH.		0 0 0	(TOUS) LA (ACRES) ARE (TONS/ACRE)	dater Bred Cnly	+74.4 (ACRES)	ACRESI			
JASSLAND AND PASTURE	22.8	22.8 (TOWS) 345.9(ACRES) .07 (TOWS)	ACRES	JIHER LAND JSE AREA	2668.7 (ACRES)	ACRES)			
433DLAND	437-6 6187-5	6377.6 6377.5	(TONS) 415 (ACRES) (TONS/ACRE)		998.3	ACRESI	1		
SCREAT TOTAL POTESTIAL SCREATIAL SCREATIAL SCREATIAL SCREATIONS	144685-1 144685-1 7108-	6408S EROSI 112145-8	0K 137583-1 155637-9 2-8 3-2		1446#5.1	30331.5 69778.5	•	48768.7	
	0.0	22.5	9.0	-7.6	0.0	79.0	51.9		

LAKE ERJE BASTEBATER MAMAGEMENT STUDY ...S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT ... LAND MAMAGEMENT ALTERNATIVES : LAND MAMAGEMENT STEED FACTICE SCENARIJS

345[h: HOM	HOMEY CREEK	HELMO	MELNORE.OH	COUR	COUNTY: 04 HURO	04 HURON. OHIO			
	EXISTING POT- GROSS EROSION (TONS) (TONS/ACRE)		MEDUCE SOIL SPRING LOSS TO T PLOUING AND EXISTING ONLY (TONS) (TONS)		40000	7 2 F U U I	*****	EDUCE) SJL 46MI. ILLAGE: SROUP LAND MISEL PLOW AREA TOWS) (ACRES)	EXISTING 531L LOSS 5 T FACTON (ACRES) (TONS/ACRE)
113PLAND 546	6211.7		3162.9 5917.1	6506.3	5941.6	959.3		632.6	632.6
230PLAND S46	11347.3	10368.5 3.0	10847.2	11927.4	10692.2	1575.3	1771.8	3449.6	3469.6
STOPLAND S	95.1	88.9	90°5	99.5	90.9	95.1	1959.	39.5	\$ .0 \$ .0
CROPLAND S46	1746.0	1746.0	1663.2	1828.8 1.5	1670.1	731.5	731.5	1255.3	• •
330PLAND S46 5	1540.5	1540.5	1467.5	1613.5	1473.5	1540.5	1540.5	1590.2	•••
CROPLAND	CROPLAND 20966.6	<u>:</u>	16906.8 19985.5 21975.7 2.8 3.1	21975.7	-1	20068.3 4801.7 2.8 .7	9740.6	1	
VI VE YARD S And orch.		0000	(TONS) JA (ACRES) JA: (TONS/ACRF)	JATER Jaea daly	197.7 (ACRES)	ACRES)			
31ASSLAND 14D PASTURE	2.5 79.1	2.5 (TONS) 79.1(ACRES) .03 (TONS/	ACRE)	JTHER LAND JSE AREA	1779.2 (ACRES)	ACRES 1			
HOODLAND	52.6 800.6 .01		12.6 (TDNS) 41: 10.6 (ACRES) .07 (TONS/ACRE)	FISSING DATA	) 4.64	49.4 (ACRES)			
SURMARY TOTA	SJAWARY TOTAL POTENTIAL (2.6	- 43	-1	22167.7	20248-5	4887.0	9856.5	ROSS EROSION 17067.3 20165.2 22167.7 20248.5 4887.0 9856.5 7396.3 12.1 2.5 5.5 1.2	
PERCENT REDUCTION:	UCT10N:	19.4		1.5.	F • 4	16.9	53.1		

U.S. ARPY CORPS OF ENGINEERS. RUFFALO DISTRICT	
PS OF ENGIN	AR ICS
U.S. ARPY COR!	PRACTICE SCEN
LAKE ERIE WASTEWATER MANACEMFNT STUDY	LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIUS

			::						
LAND USE	EXISTING POT BEGROSS ENDSION ACTOMS) (TOMS) (TOMS)	LOSS TO T PLONII LOSS TO T PLONII AND EXISTING ONLY (TONS) (TONS)	EDUCE SOIL SPRING SS TO T PLOVING TO EXISTING ONLY TONS) (TONS)		LINTER COVER CROS (CROS) (TONS)	FALL LINTER MAXIMUM REDUCED PLOAING COVER REDUCTION TILLAGE: ONLY CRIP TILLAGE CHISEL P_DU (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	REDUCED TILLAGE: CHISEL P.DU (TONS)	SOIL MENT. GROUP LAND AREA (ACRES)	EKISTING 5314 LOSS > T FACTOR (TOWS/ACRE)
S4S 1	59524.1	34613.6	56703-1	7.242.9 6.342.0	58202.5	58202.5 85.15.7 25972.1 7.4 1.1 5.5	25972.1	1911.2	6573-0
CROPLAND S46 2	182817.6	143642.1	173893.7 3.5	195549.A	180526.8 3.6	26521.5	A0122.7	49495.5	23811.0
CROPLAND S46 3	13939.8 1.6	13933.7	13258.9	14927.0	137H6.4 1.5	13939.8	13939.9	8579.5	e. &
CROPLAND 346	8222.4	8222.4	7838.8	A721.0	1981.4	3545.9	33435 8.0	4559.7	
STOPLAND 5	2962.1	2962.1	2820.1	5155.2	2877.1	2962.7	2962.7	3153.1	
STOPLAND 8	1+0.6	1.0.6	133.5	151.3	140.6	62.3 .5	62 • 53 • 53 • 53	158.0	
CAOPLAND S46 10	4239.5	128.5 3.3	4027.5	4554.0 115.3	4223.3 106.9	622.7 15.8	1872.3	39.5	39.5
CROPLAND	-1	203643.6	-1	290421.2 3.7	267738.1	56170.6	56170.6 128378.4 .7 1.58	78282.9	
VI VEYARDS	000	0.0 0.0 47	(TONS) JA: (ACRES) JR: (TONS/ACRE)	AATER 1REA ONLY	929.1 (ACRES)	ACRESI			
STASSLAVO And Pasture	39.6 721.5 .05	39.6 (TONS) 721.5(ACGES) .05 (TONS)	ACRE)	)THER LAND JSE AREA	6009.6 (ACRES)	ACRESI			
	699.5 10042.3	103		4 ISSING DATA	1502.4 (4CRES)	ACRESI			
SJABARY TOTAL	NTIAL 89.9 3.1	SS 07A	263792.2	296072.8 27307.0 57869.9 131296.0 3.3 3.0 5.0 6.0	273007.0	57869.9 .6	131296.0	90549.1	
JECENT REDUCTION:	0.0	25.0	6.	-6. P	1.5	19.1	52.5		

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LAKE ERIE WASTEWATER MAMAGENENT STUCV Land Mamagement Altermatives : best Mavagipent practice scenarios

	GRISTING POT- GROSS EROSION (TONS)	EDUCE SOIL OSS TO T NO EXISTING TONS) TONS/ACRE)	SPRING PLOUING G DALY (TONS)		300	E &	REDUCED TILLAGE: 5415EL = 34 (TONS)	SOIL MEMT. BROWP LAVD BREA (ACRES)	E41871N6 S31L LOSS > T FACTOR (ACRES)
1	-1	18137-5 28111-2 5-0 7-7	28111.2	31302.9	-1		4173.7 12765.7	3557.2	3657.2
210PLAND 316 2	42194.7	31915.9	10260.4	44831.9	4.964.4 3.6	5977.6	16280.0	11317.4	1709.7
CROPLAND SAG 3	3994.0	3994.0	3810.9	4243.6 1.6	3877.5	3994.0	1.1	2322.6	
S46 4	5425.8 •9	5425.8	5177.1	5764.9	5267.5	2351.2	2351.2	6059.0	
CROPLAND SRG 5	552.5	552. 54.	527.2	5.87.1	536.4	552.5	552.5 .9	612.3	• • •
CAOPLAND S45 10	554.5	39.5 4.0	529.1	5 8 9 . 2 5 9 . 2	536.3 54.4	78.6	240.3	₽ •	9.6
1	82163.0	60065.2	78416.3	- F	79785.9	17127.8	36189-1	23979.1	3 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
JINEYARDS And Orch.	000	0.0 0.0 1) 0.0 1)	(TONS) 4A (ACRES) 4RI (TONS/ACRE)	AATER Area ünly	168.5 (ACRES)	AC RE S )			
SHASSLAND AND PASTURE	286.6 .05	13.4 (TONS) 286.6(ACRES) .05 (TUNS)	ACRE 3	JTHER LAND JSE AREA	1304.7 (ACRES)	ACRES)			
JOOFAND	160.0 2392.0		_	S	385.5 (ACRES)	ICRES		•	
SJAMARY TOTAL POTENTIAL GR SJAMARY TOTAL POTENTIAL GR BUSATA STREET REDUCTION:	83547.4 83547.4 3.1	SJAMARY TOTAL POTENTIAL GROSS ERGION 83547.4 61109.7 79725.	19726.2	R8758.2	91115.6 3.115.6	41115.6 17551.2 3.0 .6	36917.5	27043.2	1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
The state of the s	0.0	26.9	•	-6.2	2.5	79.0	53.0		

LANT ERIE WESTE-ATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. PUFFALO DISTRICT Land Management alternatives: 1 est mannement practicf efferance

TOUCTION TILLEGE:  TOUS LACRE OF TONS A CRE  TOUS LACRE OF TONS A CRE
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LAME ERIE WASTEWATER HAMMGENEWT STULF U.S. AMMY CORPS OF ENGINEERS, HUFFALO DISTRICT Land Management alternatives : Best Management Practice scenarius

LAND USE	EXISTING POT-R	TAEDUCE SOIL SPRING	L SPRING	FALL	E INTER	MAKINGH	REDUCED	SOIL MEMT.	5311 105c
	EROSION (TONS)	<b>,                                    </b>	ACRE U	JALY (TONS) (TONS/ACRE)	, ,, ,, ,, ,		CHISEL P.34 (TONS) (TONS/ACRE)	A4EA (ACRES)	(ACRES)
1.27LAND 346 1	6211.7 9.8	3162.9 5.0	5917.1	6506.3	446	7	959.3 2602.3	632.6	6.32.6
CROPLAND S46 2	11367.3	10368.5	16847.2	11927.4 3.5	13892.2	1575.3	4771.0	3119.6	3449.6
SASPLAND 3	95.1	86.9	96.5	.0.00 .0.00 .0.00 .0.00	90.9	95.1	95.1	39.5	9.0
CROPLAND 596 4	1746.0	1746. 0	1665.2	1828.8	1670.1	731.5	751.5	1255.3	• •
CLOPLAND S46 5	1540.5	1540.5	1467.5	1613.6	1473.5	15.0.5	1540.5	1590.2	00
1	-1	-1	19985.5 2.8	21975.7	20068.3	4801.7	9740.5	7067.2	
VINEYARDS and orch.	900	9 9 9 9	(TONS) JA (ACRES) 4R (TONS/ACRE)	AATFR AREA ONLT	197.7 (ACRES)	ACRESI			
STASSLAND AND PASTURE	2.5 79.1	79.16	2.5 (TOVS) OF 79.1(ACRES) JS .03 (TONS/ACRE)	JTHER LAND JSE AREA	1779.2 (ACRES)	ACKES)			
JOOF AND	52.6 800.6	52.6 860.6	(TONS) 4 (ACRES) (Tons/Acke)	41SSING DATA	49.4 (ACRES)	ACRES)	-		
14484 TOTA	3,14447 TOTAL POTENTIAL GR 21166.5 2.6	055 FR051 17367.3	20165.2	22167.7	29248-5 2.5	0 · 1 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	9955.5	22167.7 21248.5 4987.3 3955.5 7395.3 2.8 2.5 .6 1.2	1
*EACENT MEDUCTION:	0.0	19.4		1.4-	\$.4	16.9	53.4		

LAKE ERIF WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives: Pest Hondsiment Practice Scenarios

	EX.151.106 5)11. LOSS 7 1 6.CT.03 (10.C.C.03 1 0.CT.03 1 0.CT.03 1 0.CT.03		18621.9	***	0 <b>0</b>	D 0	0 0	39.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	531L M6Mf. 3433 LA40 44E6 (ACRES)		39548.4	7007.9	9174.2	2996.1	e. 60	εΩ • • •				1265.2 (ACRES)	72530.2
	TILLAGE: CHISEL P.D. (TONS)	20205.3	60105.9 1.5	11435.7	3396.5	2698.5	in in	1872.3	99749.3				102106.6
62 ALL IN BASIN	444 19UM 4EDUCTION 71LLAGE (TONS) (TONS)	6545.3	19902.9	11455.7	3396.5	2590.5	ιΩ (l) Φ	15.8	44736-1	ACRESI	ACRFS)	ACREN)	46116.1
	FALL JINTER PLOUING CHUER 3MLY CR3P (TCMS) (TOMS/ACRE)	44002.4 49555.5 45461.1 7.5 7.5 7.5	135486.4 3.5	11313.1	7645.8	2607.4	100.4	4223.3	-1	731.4 (ACRES)	5199.1 (ACRES)	1265.2 (ACRES)	211095.4
JEP CR COUNTY:	FALL PLOWING JALY (TCMS) (TOMS/ACRE)	49555.5	146741.8	12245.7	#355.7 3.0	2843.4	108.1	115.3	224474.3	JATER AREA ONLY	JTHER LAND JSE AREA	4 ISSING DATA	228974.1
UNSTREAM FROM SILVEP CR	SPRING PLOWING ONLY (TONS)	44392.4	130505.5	10874.2	7512.6	2561.8	95.4	4327.5	199969.9	(TONS) JA (ACRES) AR( FTONS/ACRE)	ACRE	•	204105.8
	MEDUCE SOIL SPRING LOSS TO T PLOWING AMD EVISTIMG ONLY (TONS)	26556.2 4.4	110459.0	11427.5	7680.0	2690.5	100.4	128.5	159242.1	0.00	35.0 (TONS) 672.1(ACRES) .05 (TONS)	540.6 7759.1	
CAND REPRESENTATIONS: MONEY CREEK	CXISTING POT-AE GROSS LO EROSION AM (TONS) (T	46590.5 7.7	137213.1	11453.7	7.88.0	2690.5	100.4	4239.5	210147.7 1 3.5	0 0 0 0 0 0 0	35.0 672.1	540.6 7759.1	214464.4 214464.4 3.0
SASIN: HONEY	AND USE G	11111111111111111111111111111111111111	CAOPLAND S46 2	SASPLAND 3	CROPLAND S46	SAOPLAND S46 5	CROPLAND S46 8	CAOPLAND SYG 10	1	VIVEYARDS AND ORCH.	STASSLAND AND PASTURE	JOODLAND	3JMMARY TOTAL POTENTIAL GRO 21464.4 1 21464.4 3.0

LAKE ERIE HASTEWATER MANAGEMENT STUDY U.S. AKMY CORPS OF ENGINEERS. RUFFALO DISTRICT Land management alternatives : Best Management Practice scenarios

LAND USE	EXISTING PO	EXISTING POT-AEDUCE SOIL GROSS TO 7	SPR ING PLO4 ING	FALL PLOWING	LINTER	MAKINUM REDUCTION	REDUCED TILLAGE:	SOIL MEMT. GROUP LAVO	531L LOSS
	EROSION (TONS) (TONS/ACRE)		(TONS)		CROP (TONS) (TGNS/ALKE)		(, ~ ~ .	43EA (4C42S)	A T FACTOR (ACRES) (TONS/ACRE)
STOPLAND STG 1	29461.5	-1	28111.2	31302.3 8.5	31302.3 28602.2 8.5 7.6	4173.7	12766.7	3657.2	3657.2
CROPLAND S46 2	42178.7	31899.9	4u245.5	9.4814. 6.5	40946.5 3.6	5975.3	16277.4	11507.5	7.0011
243PLAND 346 3	3999. 1.1	3994.0	3819.9	4243.6 1.8	3877.5	3994.3	1994-3	2322.6	0.0
SAGELAND 4	5425.8	5425.8	5177.1	5764.9	5267.5	2351.2	2351.2	6059.0	0.0
STOPLAND 5	552.5	552.5	527.2	547.1 1.0	536.4	552.5	552.5 • 3	512.3	99
CROPLAND S46 10	554.5 56.0	39.5 4.0	529.1	589.2 59.5	536.3	78.6	240.3	e.	6.6 6.6
CROPLAND	   CROPLAND	;	60049.2 78401.0 2.5 3.3	-1	19776.4	17125.3	38182.1	23969.2	]
VINEYARDS AVD ORCH.	999	0.00	(TONS) JA: (ACRES) JA: (TONS/ACRE)	JATER 1rea only	368.0 (ACRES)	ACKES)			
SAASSLAND And Pasture	13.4 286.6 .05	13.4 (TONS) 286.6(ACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	1364.7 (ACRES)	ACRES)			
DODLAND	160.0 2392.0		.0.0 (TONS) 415 -2.0 (ACRES) -07 (TONS/ACRE)	MISSING DATA	385.5 (ACRES)	ACRES)			
SJAMARY 101	  SJMMARY		79711.1	86741.5	81100.3	17549.0	38910.4	ROSS E40SION SP711:1 B8741.5 B1100.2 17549.0 3A910.4 27033.3 6.1 2.3 2.9 3.3 3.0 3.0	
PERCENT REDUCTION:	UCT10N: 0.0	56.9	9.	-6.2	2.9	79.0	53.4		

LANF ERIE WASTEVATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALD DISTRICT LAND MANAGEMENT ALTERNATIVES : PEST WENDERMENT PRACTICE SCHUARIUS

LAND USE	EXISTING POT GROSS EROSION (TONS)	÷	V a ,		WINTER COVER CROP (TONS) (TONS/ACRF)	FALL WINTER MAXIMUM REDUCED PLOWING COVER REDUCTION TILLAGE: 3NLY CRDP TILLAGE CHIST B_3 (TONS) (TONS) (TONS) (TONS) (TONS) (TONS)	RFDUCED TILLAGE: CHISEL P.34 (TONS)	SOIL MGMT. 640JP LAVO 64EA (ACRES)	ERBTING SOTE LOSS > T FACTOR (ACRES)
CAOPLAND S43		2167.4	-1	-	**!R.5 *106.6 5.9 5.5	6.00.5	1819.1	751.2	545.6
CROPLAND S46	52307.8 3.8	40941.9 3.0	49659.3 3.6	56280.5 4.1	52307.F	7724.P	23174.3	13967.5	5347.4 5.1
240PLAND 343	4123.0	4123.6	3914.2 1.5	4436.1	4123.0 1.6	4123.0	4123.0	2609.4	
CROPLAND S46 4	441.7	441.7	# 80 6: #	8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 8 8 8 8 8	4.1.7	195.7	195.7	533.7	0.0
243PLAND S4G 5	508.9	508.9	143.1	547.5	508.9	508.9	508.3	494.2	0.0
CAOPLAND S46	60.3	60+3 1+0	57.2	64.A	60.3	26.7	26.7	59.3	00
CAOPLAND	61548.3 3.4	-1	-I	66222.7	-1	-I	-I	19315.3	
VINEYARDS AND ORCH.	0 0 0	0.00	(TONS) JAT (ACRES) ARE (TONS/ACRE)	JATER Area only	257.0 (ACRES)	ACRES)			
STASSLAND AND PASTURE	8.8 168.0	8.8 (TONS) 168.0(ACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	1255.3 (ACRES)	ACR ES )			
JODLAND	152.4 2866.4 .05		12.4 (TONS) "IS 16.4 (ACRES) .05 (TONS/ACRE)	WISSING DATA	405.3 (ACRES)	ACRES)		•	•
3.144AY TOT	SJ44A4Y TOTAL POTENTIAL 62861.0 2.9	, -	59705.4	67644.1 3.1	-I	13600.2	30579.9	GROSS FROSIJY 59705.4 67644.1 62881.0 13600.2 30579.9 21755.0 49322.3 2.3 2.7 3.1 2.9 .6	
SERCENT REDUCTION:	0.0 0.0	21.6	5.1	-7.6	9.0	18.4	51.4		

LARF ERIE HASTENATER MANACEMENT STUCY
LAND MANAGEMENT ALTERNATIVES: BEST MANACEMENT PRACTICE SCENARIUS

1. HONEY CREEK UPSTW. FROM ALCHOLZ DITC COUNTY: 04 FURDN, 0410

\$01L 46M1. 640UP LA40 44EA 44EA	632.6	3.949.6 3.949.6 t	39.5 5.99.5 8.69	i 1255.3 0.0	5 1698.2 0.0 9 0.0	5 7367.2 5				7996.3
Z - U	2662.5	4771.3	95.1	731.5 • 6	1540.5	9740.5			•	9855.5
E &	859°5	1575.3	95.1	751.5	1540.5	1.1024	(ACRES)	(ACRES)	49.4 (ACRES)	055 EROSIGM 20165.2 22167.7 20248.5 4887.0 9855. 2.8 2.5 6.5 1.6
	9.4	13892.2	90.9	1670.1	1475.5	20068.3° 20068.3°	197.7 (ACRES)	1775.2 (ACRES)	4.6	20246.5
FALL PLOWING ONLY (TOUS) (TONS/ACRE)	6596.3	11927.4	49.6 2.5	1828.8 1.5	1613.6	21975.7	4ATER 4rea only	) THER LAYD JSE AREA	415SING DATA	22167.7
9 60	5917.1	13847.2	90.5	1663.2	1467,5	19985.5	(TONS) 4A (ACRES) 4R (TONS/ACRE)	2.5 (TONS) )T 79.1(4CRES) JS .03 (TONS/ACRE)	52.6 (TG/S) 41 10.6 (ACRES) .07 (TONS/ACRE)	
TAREDUCE SOIL SPRING LOSS TO T PLONIN AND EXISTING ONLY (TONS) (TONS)	3162.9	10368.5	P8 • 9	1746.0	1540.5	16906.8	0 0 0	2.5 ( 79.114 .03 (		
EXISTING POT-6 GROSS EROSION (TONS)	6211.7 1 9.8	11387,3	95.1	1746.0	1540.5	1	2 G G	2.5 79.1	52.6	
TAND USE	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	230PLAND 546 2	CAOPLAND S45 3	CROPLAND SMG 4	CROPLAND S4S S	CAOPLAND	JIVEYARDS AND GRCM.	SAASSLAND AND PASTURE	4300LAMD	JRRARY TOTAL

LAKE ERIE WASTEVATER HANAGEMENT STUTY U.S. ARMY CORDS OF ENGINEERS, RUFFALO DISTRICT Land Panagement alternatives : pest management practice scenarios

##X1#UM #EDUCED SOIL 46MT, EffSTING #EDUCTION TILLAGE SOUP LAND SOIL LOSS TILLAGE CHISEL PLOM 42EA > 7 FACTOR (10NS) (ACRES) (ACRES) (10NS/ACRE) (TONS/ACRE)	5040.3	15281.5 %6241.3 2%5%%, 15806.6 %	1212.0 A212.0 4971.9 9.9	0.0 1.00.1 14.6.1 0.00.0 0.00 0.00 0.00 0.00 0.00 0.0	2601.9 2601.3 2797.2 5.00 .9 .3 0.00	26.7 25.7 59.5 0.0 .5 .5	78.6 240.5 9.9 e.s. 7.9 24.5 55.0	35128.6 77783.3 03572.5				
	34650.5 37.1	104192.6 15	8031.4 A	7379.4 .9	2518.8 2.9	50.3 1.0	5.48.5 5.48.5	161451.3 35	622.7 (ACRES)	4339,2 (ACRES)	8+0.2 (ACRES)	
	42227.7	113071-1	8 2 7 9 . U	8049.C	2748.2	54.8	589.2 59.5	175549.5	JATER 1rea only	JTHER LAND JSE AREA	WISSING DATA	
COUCE SOIL SPRING SS TO T PLOWING TO EXISTING SOLY TO T	23467.8 37927.0 4.7 7.5	100795.7	7#15.7 1.6	1259.1	2477.8	57.2	529.1 53.4	156862-2 3-2	0.0 (TONS) 41 0.0 (ACRES) 31 0.00 (TONS/ACRE)	24.8 (TONS) 31 533.7(4CPES) 15 .05 (TONS/ACRE)	5.1 (TONS) 9.0 (ACRES) .06 (TONS/ACRE)	·
	23467.R	A \$255.5	8205.9	7613.5	2601.9	60.3 1.0	39.5	125244.4	00000	24.8 533.70		-1.
•	39779.9	105918.9	6212.0	7613.5	2601.9	1.0	554.5 56.0	164748.0 3.5	0 0 0	24.8 533.7 .05	365.1 6059.0	SJAHARY TOTAL POTENTIAL GRO
THE USE	1 1 1 1 1 1 1 1 1	240PLAND S46 2	CAOPLAND S46 3	210PLAND S46	CROPLAND S46 5	213PLAND 346 R	CROPLAND S4G 10	1	JINEYARDS AVD ORCH.	STASSLAND AVD PASTURE	400DLAND	JHMARY TOTA

LANE ERIE MASTEVATER MANAGEMENT STUDY U.S. ARMY COMPS OF ENGINEERS, RUFFALD DISTAICT LAND MANAGEMENT ALTERNATIVES : HEST MANAGEMENT PRACTICE SCETARIOS

	E41511M6 S314 LOSS > T F4CTOR (ACRES)	3657.2	7769.7	• •	30	90	9 • 9 5 • 0	[				
	SOIL MEMT. SROJP LA40 AMEN (4CRES)	3657.2	11307.5	2322.8	0.59.0	612.8	6.6	23359.2			•	27033.3
	x - 0	12766.1	18277.4	3994.3 1.1	2351.2	552°5	240.3	38182.1				38910.4
32 CRAWF319+ 3H19	MAKIMUM REDUCTION TILLAGE (TONS)	4173.7	5975.3 6.	3994.0	2351.2	552,5	78.6	17125.3	ACRES)	ACRES)	ACRESI	17549.0
	COVER COVER (ROP (TONS)	28602.2	8.84634 8.6	3877.5	5267.5	536.4	5.88.8 5.40	19770.4	168.6 (ACRES)	1304.7 4ACRES)	SAD. L. (ACRES)	A1100.4
CUJNITE	FALL PLO=ING ONLY (TONS)	31302.4	***********	4243.6 1.8	5764.9 1.t	587.1	5.84.8 5.84	1 87302-6 3-6	dater Area onlt	JTHER LAVD JSE AREA	415SIVG DATA	##741.5 #1100.3 175*9.0 3.5 3.6 .6 -6.2 2.9 79.0
ATTICA, KT 4	SPRING PLOUING DVLY (TONS)	28111.2	40245.5	3810.9	5177.1	527.2	529.1	78401.6	CTONS) JATER CACRESS CREA CTONS/ACRES	ACRE)		
A111C	ADDUCE SOIL SPRING ADDER TO T PLOUIS AND EXISTING ONLY (TONS) (TONS)	16137.5	31899.9	3994.0	5425.R	552,5	39.5	60049.2	0.00	13.4 (T34S) 286.6(ACRES) .05 (TONS)	160.0 (TONS) 2392.0 (ACRES	61093.8 61093.8 2.3 26.5
HONEY CREEK	EXISTING POT.R GROSS L EROSIDM A (TONS)	-1	42178.7	3994.0	5425.8	552.5	554.5	   82167.0   3.4	0000	13.4 286.6 .05	160.0 2392.0 .01	31.6 3.1 0.0
31SIN: HONEY	LAND USE	1.0PLAND S45	CROPLAND S46 2	SAGPLAND 3	CAOPLAND 346	343PLAND 543 5	CLOPLAND S46	313PLAND 82167.0	VINEYARDS AND ORCH.	33ASSLAND And Pasture	4330LAND	SJAMAAY TOTAL POTENTIAL BJS31.6 BJS31.6 BJS31.6 BJS31.6 BJS31.6

LAME ERIE BASTEJATER MANAGEMENT STUDNY U.S. ARPY CORPS OF FYGIMEERS. RUFFALO DISTRICT Land management alternatives : Pest Panagement Practicf Scenarins

	E41511NG SJL LOSS > T FACTOR (4CPES) (1D45ACRE)		9.29°1		9 D	000	_				
	SOIL MGMT. 343JP LAUD 44EA (AC3ES)	148.5	5544.5	1540.9	• • • • • • • • • • • • • • • • • • • •	29.7	7877.5			61.1 (TOMS) 4 ISSING DATA 395.4 (ACRES) 1235.5 (ACPES) .05 (TOMS/ACRE)	9588-1-1
	MAXIMUM REDUCED SO TILLGE: 34 TILLGE: 34 TILLGE: CHIST: 334 AT (TONS) (TONS) (A		8546.3 1.5	2593.1	175.1	32.5	11657.5				12227.1
CA. 1H10		7	2948.9	2593.4	175.1	32.3	5755.1	(ACRES)	(ACRES)	395.4 (ACRES)	6.6067.9
COUNTY: 03 SEVECA+ AHIO	UINTER COVER CROP (TOHS)	664.7 753.3 700.1 4.5 5.1 4.7	19291.4 3.5	2593.4 1.6	345.2 .8	32.3	23012.4	168.6 · (ACRES)	731.4 (ACRES)	4.295	24072.0
Ceur	FALL PLOJING ONLY (TONS) (TONS/ACRE)	753.3	20756.5	2730.4	425.2	34. A	24760.2	JATFR ARFA ONLY	JTHER LAND . JSE RREA	ISSING DATA	25895.2 2.7 -7.6
ATTICA.PT .	SPRING PLDWING G ONLY (TONS)ACQED	664.7	1 #314.6 3.3	2462.1 1.5	375.2 .A	30.7	21847.3 2.8	0.0 (FONS) 41 0.0 (ACRES) AR .00 (TONS/ACRE)	ACRF3	(TONS) 4 (ACPES) (TONS/ACRE)	22#56.6 2.4 5.0
ATTIC	REDUCE SOIL .0SS TO T NND EXISTIN (TONS)	399.0	16514.5 3.6	2503.4	395.2 A.	32.3	I 19934.4 21847.3	0 0 0	2.7 (TONS) 49.4(ACRES) .05 (TONS)		
HOMEY CREEK	EXISTING POT- GROSS EROSION (TONS)	700.1	19291.4	2593.4 1.6	395.2	32.3	3.40PLAND 23512-4 2.9	7 0 0 0 0	7.64 4.64	61.1 1235.5	72.0 2.5
9451W: HONE	350 08 <b>5</b> 1	213PLAN9	CROPLAND S46 2	STOPLAND STG 3	240PLAND 546 4	: 10PLAND S46 5	CAOPLAND	FINETARDS AVD ORCH.	SRASSLAND AND PASTURE	JOODLAND	SUMMARY TOTAL POTE 240 754CENT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STUDY LAVO MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

34 SIN: HON	HONEY CREEK	ATTIC	ATTICA.RT 4	<b>₩</b> ∩00	COUNTY: 64 HURON+ OHIO	N. OHIO			
350 0247	EXISTING POT.R 68055 L FROSION (TONS)	T.AEDUCE SOIL SPRING LOSS TO T PLONIII AVD EXISTIVE DULY (TONS) (TONS)	EDUCE SOIL SPRING OSS TO T PLOWING THO EXISTING DALY (TONS) TONS /ACRE) (TONS /ACRE)		30000	2 6	TEDUCES TILLAGE: CHISEL PLD (TONS)	SOIL MG4F. Stoup Land Atea (Acres)	EA1STING \$31L LOSS > 1 FACTOR (ACRES) (TOMS/ACRE)
316 1	6211.7	3162.9	5917.1	6506.3	5941.6	959.3	2602.3	632.6	632.6
CROPLAND 346 2	11367.3	10368.5 3.0	10447.2	11927.4	10892.2 3.2	1575.3	4771.0	3449.6	3449.6
343PLAND	95.1	6.5 2.5	90.5	99.5	90.9	95.1	95.1	39.3	9.4
CAOPLAND S46	1746.0	1746.0	1663.2	1828.6 1.5	1670.1	731.5	731.5	1255.3	90
SASPLAND S46 5	1540.5	1540.5	1467.3	1513.6	1473.5	1540.5 .9	1540.5	1590.2	000
I	10PLAND 20980.6	-[	-I	21975.7	-1	4801.7	9740.5	1067.2	[
JINEYARDS And Orch.	0 0 0 0 0 0 0	999	(TONS) 4.	dater Area only	197.7 (ACRES)	ACRES)			
JASSLAND And Pasture	69.2	1.7 (TONS) 69.2(ACRES) .02 (TONS)	ACRE)	JTHER LAND JSE AREA	1779.2 (ACRES)	ACRESI			
JOOOL AND	52.6 800.6	52.6 (TONS) 800.6 (ACRES) .07 (TONS/A	12.6 (TONS) 1 10.6 (ACRES) 107 (TONS/ACRE)	MISSING DATA	49.4 (ACKES)	ACKES)			,
SJAMARY TOT	SJAMARY TOTAL POTENTIAL 21165,8	GROSS EROSION 17066.7 2.1	20164.5 2.5	22167.1	20247.8	4886.2	-[	SJMMARY TOTAL POTENTIAL GROSS EROSION 21MARY TOTAL POTENTIAL GROSS EROSION 21MARY TOTAL POTENTIAL GROSS EROSION 22,8 2.5 2.8 2.8 2.8 6.5 1.2	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PERCENT REDUCTION:	0.0 0.0	19.4			4.4	76.9	53.4		

LAME ERIE WASTEMATER MANAGEMENT STJOY

L.S. APPY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : 9EST MANAGEMENT PRACTICE SCENARIOS

34SIN: HONE	HONEV CREEK	4111CA.91	A 44 4	*000	CCUNTY: 62 ALL IN BASIN	IN BASIN			
LAND USE	EVISTING POT GROSS EROSION (TOWS)	• ~~ ·	REDUCE 5011 SPRING LOSS TO T PLOWING AND EYISTING ONLY (TONS) (TONS/ACRE)				REDUCED SOIL 46MF TILLAGE: 513P LAV CHISCL 2.3 41E4 (TONS) (ACRES)	\$016 46M7. \$12JP CAVD 41E4 (ACCES)	74157146 5)1L LOSS 5 7 FACTOR (ACRES) (TOMS/ACRE)
10PLAND S46 1	10PLAND 36373.3	21699.5	34642.9	38562-5 8-7	35244.0	35244.0 5136.4	7	}	8.8 8.8
STOPLAND	72902.5 3.6	58828.2 2.9	69451.1 3.4	77547.1 3.8	71176.2	10405.6	31614.9	20361.4	12045.4
STOPLAND 3	6682.5	6576.3	6363.5 1.6	7133.6 1.P	6561.9 1.6	6682.5 1.1	66R2.5 1.7	4003.f	9.5 6.5
SROPLAND 4	1567.0	1567.0	7215.5	8019.0 1.0	7332.9	3257.8	3257.5	7788.7	0.0
CROPLAND S46 5	2125.4	2125.4	2025.4	2235.5	2342.3	2125.4	2125.4	2332.7	6.0
CROPLAND S46 10	554.5 56.0	39°.4	529.1 53.4	589.2 59.5	538°3	78.6	240.5	6.6	9.9
CROPLAND VINEYARDS AUD ORCH	CTOPLAND 126205.2 5.2 VINETARDS 0.0	-	96935.9 120277.6 2.5 3.1 0.0 (TONS) d 0.0 (TONS/RES) A	134086.3 134086.3 3.4 ATER	122895.6 27586.3 3.2 27586.3 533.7 (ACRES)	27586.3 27586.3 14CRES?	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.9955.9	
STASSLAND AND PASTURE	13 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	17.H (TONS) 405.S(ACRES) .04 (TOVS)	ACRE)	JTHER LAND JSE AREA	3815.3 (ACRES)	(ACRES)			
4300LAND	273.7		3.7 (TONS) 4 B.1 (ACRES) .06 (TONS/ACRE)	415SING DATA	830.3 (ACRES)	ACRES	•	•	•
SJAMARY TOTAL POTENTIAL 128896-9 PFECENT REDUCTION:		7 9	122A56.4 2.8	136927.7 125524.1 2A508.6 61027.1 3.1 2.8 .6 1.9	-I 125524.1 2.8	9.8585	61027-1	1	
	0.0	23.1	4.7	-6.2	2.6	11.9	52.7		

LAKE ERIE WASTEWATER MANAGEMENT STUDY Land Management alternatives : best management practice scenarios

3451W: MOM	HONEY CREEK	WEIS RUAD	RUAD	COUNTY:		02 CRAJFORD. SHED			
LAND USE	EXISTING POT-RE GROSS ERDSIDN AN (TONS)	1. REDUCE SOIL S LOSS TO T P AVD EXISTING (TONS)	SPRING PLONING G ONL Y (TONS)	FALL PLOWING JULY (TOMS) (TOMS/ACRE)	30000	teru.	REDUCED TILLAGE: CMISEL P.) (TONS)	SJE 46ME. GROUP LAND AREA (ACRES)	EXISTIME S)1L LOSS > 7 F4CTOR (ACRES) (TONS/ACRE)
SNG 1	21667.1	12661.7	12661.7 20674.0 5.0 8.1	23021.3 9.0	21035.2	3069.5	9389.1	2550-1	2550.1 8.5
SAGPLAND 2	21102.2	14867.6	26235.0	22421.1	20486.7	2989.5	9144.5	5406.7	3706.6
243PLAND 346 3	1986.0	1988.0	1896.9	2112.2	1930.0	1988.0	1986.0 1.3	1107.0	0.0
STOPLAND 4	8 . 8 . 8 . 8 . 8 . 8 . 8 . 8 . 8 . 8 .	8456.0	3300.2	3674.9	3357.9	1498.8	5 · 86 · 1	3835.1	0.0
STOPLAND S	279.1	279.1	266.4	296.6 1.0	271.0	279.1	273.1	306.1	0.0
CROPLAND S46 10	554.5 5.4.5	39.5	529.1	5.89.2	n. 885	78.6	240.3	6.6	6 ° 6 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 °
CROPLAND		33294.7	-1	52115.3	-1	9903.5	-1	13215.2	1
VINEYARDS 440 ORCH.		0.0 (TUNS) 0.0 (ACRES) 0.00 (TONS)	ACRE)	JATER Jarsa Jary	79.1 (	79.1 (ACRES)			
SZASSLAND AVD PASTURÉ	9.6 201.6	9.6 (TONS) 207.6(ACRES) .05 (TONS/	ICRE)	JTHER LAVD JSE AREA	672.1 (ACRES)	ACRESI			
OND TOOD	102.6	102.8 (TONS) 1373.9 (ACRES) .07 (TONS/A	3.9 (ACRES) 41 -07 (TONS/ACRE)	41SSING DATA	187.8 (ACRES)	ACRES)			
JUHARY TOT		SJYMARY TOTAL POTENTIAL GROSS EROSION 47509.4 52890.6 48337.3 10143.0 22933.5 3.2 3.5 5.5 5.2 3.2 1.5	-1	52890.6 3.5	48337.3	10143.0	22939.5		
PERCENT REDUCTION:	0.0	32.0	9.	-6.2	2.9	19.6	53.3		

LAKE ERIE WASTEUATER RANGEMENT 37UDY U.S. ARMY CORPS OF EVGINEERS, BUFFALO DISTRICT Land Management alternatives : Rest Wanagevent Practice scrnariss

BASIN: MOVEY CREE	IEV CREEK	CACP 213W	40 A D	NOCC	COUNTY: 03 SEMECE. 0410	CI+0 -N3			
LAND USE		ING POT. REDUCF SOIL SPRING LOSS TO T PLOMING NAME ESTATES ONLY (TOVS) 120KS (TOVS)	REDUCE SOIL SPRING FALL BINTER MAXIMUM LOSS TO T PLONING COVER GEDUCTION AND ENSITYS SINCY TONEY (TONE) (TONE) (TONE) (TONE) (TONE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	FALL PLOWING DALY (TOWS) (TONS/ACRE)	WENTER COUER CPOP (TOVS) (TOVS/ACRE)	MAXINUM QEDUCTION TILLAGE (TOVS) (TOVS/ACRE)	REDUCED TILLAGE: CHISEL PLOW (TONS)	REDUCED 5311 MGMT. TILLAGE 3101º LAVD CHISEL PLOW AREA (7045) (45755)	FRISTING SDIL LOSS > 7 FACTOR (ADRES) (1005)
140PLAND 246 2		74.6	4.07	96.3	1.9	11.0	53.1	74.6 70.P 80.3 74.6 11.0 33.1 59.5	9 0
]		10.64 6.45	79.8	80.3 2.0	74.6	11.0	33.1	74.6 74.6 70.8 80.3 74.6 11.0 33.1 59.5 1.9 1.9 1.9 1.9 3.1 39.5	1 4 4 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
VINEYARDS AND ORCH.		000	0.0 (ACRES) ARI 0.0 (ACRES) ARI 0.00 (TONS/ACRE)	JATER AREA ONLY	9.6	9.9 (ACRES)			
SAASSLAND END PASTURE	9 9 9	0.1 (TUNS) 0.014CRES) P.00 (TINS)	ACRT)	JTHER LAND JSE AREA	6.6	9.9 (ACRES)			
1300CAND	999	0.00	0.0 (TONS) 41: 0.0 (ACRES) 0.00 (TONS/ACRE)	MISSING DATA	365.7 (AC4ES)	ACRESI		0.0 (TONS) 415\$1MG DATA 365.7 (ACRES) 0.0 (ACRES) 0.00 (TONS/ACRE)	1
	SJWWARY TOTAL POTENTIAL GROSS EROSION 765.3 1.9 1.9	GROSS EROSIO 765.3 1.9	726.3 1.8	A23.7 2.0	765.3	112.8	339.5	405.2	
PERCENT REDUCTION:		0.0	5.1	-7.5	0.0	85.3	55.5		

LAKE ERIE JASTEBATER MAMAGEMEUT STUDY Land mamagement altermatives : Best mamagement practice scenarios

	LAND MARKETERS ALTERNATIVES . 2.3.								
34 S IN: HOR	HONEY CREEK	AEIS ROAD	toab	Count	COUNTY: LA NURON, OHIO	0140			
JSD DE	EXISTING POT GROSS EROSION (TOMS)	EXISTIME POT-REDUCE SOIL SPRING 68355 LOSS TO T PLOUIN EROSION AND EXISTIME ONLY ITOMS) (TOMS) (TOMS)	MEDUCE SOIL SPRING LOSS TO T PLONING AND EXISTING ONLY (TONS) (TONS)	FALL PLOBING ONLY (TONS) (TONS)	dinter Cover Crop (Tons) (Tons)	AKINUM AEDUCTION TILLAGE (TONS) ITONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW (70MS) (10MS/ACRE)	SOIL SYDJO AREA CACRE	EXISTING \$31L LOSS > 7 FACTOR (ACRES) (10NS/ACRE)
CAOPLAND S46	193.7	197.7	375.1	112.4	376.6	54.5	165.0	5*66	8.02
STOPLAND 2	2267.9	2075.7	2160.3	2375.5	2169.3	313.7	958.2	691.9	691.9
CROPLAND S96 3	16.7	16.7	15.9 1.6	17.5	15.9	16.7	16.7	6.6	0.0
143PLAND	622.5	622.5	593.0	652.0	595.4 1.4	260.8	268.9	B • 96 +	
CLOPLAND S	248.9		237.1	260.8	234.1		248.3	227.5	900
CROPLAND	3549.7	3161.5	3381.4	3381.4 3718.2 3395.3 2.4 2.6 2.4	3395.3	9.468	1641.5	1+03+5	
VINEYARDS And Orch.		9 9 9 9	0.0 (TONS) JA 0.0 (ACRES) AR 0.00 (TONS/ACRE)	JATER Area only	29.7 (ACRES)	ACRES)			
32ASSLAND AND PASTURE	1.8	1.8 (TONS) +9.4(ACRES) *04 (TONS)	ACRE)	JTHER LAND JSE AREA	89.0 (ACRES)	ACRES)			
4300LAND	19.8		.5 (TONS) 41 19.8 (ACRES) .03 (TONS/ACRE)	41SSING DATA	7.0	0.0 (ACRES)		.5 (TONS) 4155146 DATA 0.0 (ACRES) 19.8 (ACRES) .03 (TONS/ACRE)	
SJAMARY TO		GROSS EROSIO 3163.8 2.1		3/23.5	3397.6	986.9	1643.3	1472.7	
SERCENT REDUCTION:		10.9	1:1		m •	74.7	53.7		

LAKE ERIE BASTEBATER MANAGEMENT STUDY U.S. ARPY CORPS OF ENGINEERS. BUFFALD DISTRICT Land Management alternatives : Best Nanagement practice scenarios

10ME	: MONEY CREEK	UFIS RIAD	0 T C	NUCO	COUNTY: 62 ALL IN BASTW	IN BASTW			
	EXISTING POT GROSS ERDSION (TONS)	NG POT-REDUCE SOIL SPRING LOSS TO T PLOMIN IN AND EXISTING ONLY ACRED (TONS) (TONS)	SPRING PLOWING G OMLY (TONS) (TONS/ACRE)	FALL PLOUING ONLY (TONS) (TONS/ACRE)	30000	F E - 40	TILLAGE: CHISEL PLO (TOMS)	S)1L 4GPT. G10UP LAVD M AVEA (ACRES)	ERISTING SOIL LOSS > T FACTOR (ACRES) (TOVS/ACRE)
1	22060.8	12859.3 21049.1 5.0 8.1		23433.7	-1	3124.0	9554.8	2589.7	2589.7
	23467.3 3.8	17040-5	223##·1	24901.0	22752.7	3317.3	10136.9	6148.0	8.98.4 6.4
•	2004.7	2004.7	1912.8	2129.7	1946.6	1.8	1.8	1116.9	o.c
	4081.3	4081.3 1.0	3893.2	4326.9	8953.5 9.	1759.6	1753.5	4270.3	
	526.1	528.1	5,632	557.3	509.1	528.1	528.1	533.7	<i>o</i> • • • • • • • • • • • • • • • • • • •
	554.5	8. e	529.1	589°2 59°5	80 80 80 80 80 80 80 80 80 80 80 80 80 8	79.6	248.3	6.6	0.98
1	52696.7 5.2696.7 5.6	36553.4	50275.8 3.4	55937.8	51111.2	10912.3	24223.5	14668.2	
VINEYARDS And orch.	000	0000	(TONS) 44 (ACRES) 49 (TONS/ACRE)	JATER Area only	118.6 (ACRES)	I ACRES)			
STASSLAND AND PASTURE	11.5 257.0	11.5 (TONS) 257.0(ACRES) .04 (TONS)	CB E3	JTYER LAND JSE ARFA	771.0	771.0 (ACRES)			
	103.3 1393.7	103.3 (TONS) 1393.7 (ACRES) 007 (TOUS/A	3.3 (TONS) 4) 3.7 (ACRES) .07 (TOUS/ACRE)		553.5	553.5 (ACRES)	; ; ;	553.5 (ACRES)	
1 2	SJAMARY TOTAL POTENTIAL SAGOZ-7 3-2		52099.7 3.1			11297.7	25163.9 1.5	16872.4	
EGE	*ERCENT REDUCTION: 0.0	30.6	4.6	-6.1	3.0	79.3	53.3		

LAKE EBIE BASTEBATER HANAGEMENT STUDY U.S. ARPY CURPS OF FNGINEERS, RUFFALO DISTRICT Land Management alternatives : Best Management Practice Scenarios

3451M: HOR	3451W: HOMEY CREEK TRIMITARY	UTARY	WEIS ROAD		J2 CRAN	JZ CRAWFORD. OHIO			
JSD QNV"	EXISTING PO- GROSS FROSION (TONS) (TONS/ACRE)	• -	REDUCE SOIL SPRIMG LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	FALL PLOWING ONLY (TONS)	30000	MAXIMUM REDUCTION TILLAGE (TONS)	~	SOIL MGMT. Stojp Land Area (Acres)	EKISTING \$3 IL LOSS > T FACTOR (ACRES) (TOWS/ACRE)
CLOPLAND SW6 3	2063.4	-	1630.9 2732.2 5.6	3042.4	-	2779-9 405-6	1240.9	32602	326.2 826.2
240PLAND 345 2	5656.2	4615.0	5562.0 3.5	6215.7 3.3	5679.5 3.6	8.28.8 .5	2535.3 3.á	1581.3	1136.7
CROPLAND SMG 3	380.9	3.0.5	363.4	404.7 1.8	369.7 1.6	380.9	360.3	227.3	0.0
240PLAND 543	1049.2	1049.2	1001.1	1114.8	1018.6	454.7	1.054	1225.5	<b>.</b>
CROPLAND S46 5	17.0	77.0	73.4 9.	81.8 6.	74.7	17.0	77.3 è.	128.5	30
SADPLAND	33PLAND 10220.6	<u>.</u>	7753.0 9752.1 2.2 2.8	10859.4	9922.4	2147.9		4689.4 3489.1	
VINEYARDS AVD ORCM.	999	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	) ACRE	WATER Area only	9 6*6	9.9 (ACRES)			
SRASSLAND AND PASTURE		0.0 (TUNS) 0.0(ACRES) 0.00 (TUNS)	ACRE)	JTHER LAND 1se area	89.0 (ACRES)	ACRES.			
400DLAND	326.3	33.3 (TONS) 316.3 (ACKES) .04 (TONS/A	13.3 (TONS) 16.3 (ACRES) •04 (TONS/ACRE)	41SSING DATA	9 9 0	D.C. (ACRES)	,		
SJHRARY TOT	AL POTENTIAL 10233.9 2.7	SJAMARY TOTAL POTENTIAL GROSS EROSION 10235.9 7766.3 2.7 2.0	N 9765.4	10872.7	9935.7	2160.3	4701.7	JHWARY TOTAL POTENTIAL GROSS EROSION 10872.7 9935.7 2160.3 4701.7 3805.4 2.6 2.9 2.6 .6 1.2	
»ERCENT REDUCTION:	UC110N: 0.0	24.1	4.6	-6.2	2.5	78.9	54.1		

LAKE ERIE MASTEMATER MANAGEWENT STUDY U.S. ARRY CORPS OF ENGINEERS. RUFFALD DISTRICT Land management alternatives : Pist management practice stenarins

3451N: HONEY CREE	V CREEK TRIBUTARY	UTAKY	WEIS ROAD	NOCO	COUNTY: C4 HU90N+ 0HIG	N. 0110			
T TO DE	EXISTING POT FROSS EROSION (TONS) (TONS/ACRE)	NG POTAREDUCE SOIL SPRING LOSS TO T PLDAIN AND ENISTING CNLY (TONS) ACRE) (TONS/ACRE) (TONS/	REDUCF SOIL SPRING FALL LOSS TO T PLOAING PLOUING LOSS TO T PLOAING ONLY TORNEY TORY (TORS) (TONS/ACRE)	PLOUING ONLY (TONS)	EINTER COVER CROP (TONS) (TONS/ACRE)	MAKINUM MEDUCTION TILLAGE (TONS)	##XTMUM 9EDUCED 5312 TILLAGE: 51234 TILLAGE: 6H1SEL PLOW AREA TONS) (TONS) (ACE!	EDUCED SOIL MEMI. TLLAGE: STOJP LAVD HISEL PLOW AREA TONS) (ACRES)	EH1571N6 5111. JSS > T FACTOR (ACRES)
StorLAND 1	2569.6 9.6		1334.4 244.7 2691.5 2451.9 355.5 3 1.3 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	2691.5	2457.9		1076.5	266.3	266.9
CAOPLAND S46 2	3671.7	3261.8	3497.5	3845.8 5.5	3512•1 3•2	507.9	1554.5	1087.5	1087.3
CROPLAND S43	306.9	306.9	292.4	321.5	293.6 1.3	128.6 .6	129.6	227.3	000
CROPLAND S16 5	40.80.0 8.	80 B	A62.7	6.84.6. 8.4	¥66.	90° 8.	905. 8.	1197.1	
C40PLAND 7453.8 2.8	7453.6	5808.7		7100.3 7807.4	!~	129.9 1997.6 3647.1 2.7 .7 1.0	3649.1	2679.6	* * * * * * * * * * * * * * * * * * *
JINEYARDS And orch.	0 0 0 0 0 0 0	0.0	0.0 (TOMS) JAT 0.0 (ACRES) ARI 0.00 (TOMS/ACRE)	JATER AREM ONLY	99.0 (ACRES)	ACRES)			
SPASSLAND And Pasture	39.50	.P (TONS) 39.5(&CRES) .02 (TONS)	ACRE)	THER LAND JSE ARFA	1561.7 (ACRES)	ACRES)			
JOODLAND	25.8 336.1	25.8 (TONS) 336.1 (ACRES) .06 (TONS/A	15.8 (TOUS) *1: 16.1 (ACRES) .08 (TONS/ACRE)	MISSING DATA	0 0 0	0.U (ACRES)			0 0 0 0 0 0 0 0 0 0 0 0
SUMMARY TOTAL POTENTIAL 7480.4	L POTENTIAL 7480.4 2.4	GROSS EROSION 5835.3	7126.9 2.3	7834.1 2.6	7156.5	1924.2	3675.7	SUMMARY TOTAL POTENTIAL GROSS ERISTON 7126.5 1924.2 3675.7 3054.2 788.4 2.6 2.3 .6 1.2 3.54.2	•
PETCENT REDUCTION:	0.0	22.0	1.1	1.1.	4.3	74.3	50.9		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LOS, ARMY CORPS OF ENGINEERS, BUFFALD DISTRICT
LAMD MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCEWARIDS

BASIN: MONEY CREEK	IEV CREEK TRIBUTARY	raer Carr	WEIS ROAD	RAGO	COUNTY: 62 ALL IN BASIN	IN BASIN			
רשאם תצב		POT.REDUCE SOIL SPRING LOSS TO T PLOUIN AND EXISTING ONLY (TONS)	REDUCE SOIL SPRING LOSS TO T PLOUING AND EXISTING ONLY TONS)	FALL PLOWING ONLY (YOMS)	UINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	REDUCED TILLAGE: CAISEL P.3 (TOMS) (TOMS/ACTE	SDIL MGMT SROUP LAW AREA (ACRES)	E
LAND	(10MS/ACRE)	2965.3	5179.9		-I	762.3	2317.4	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	593.1
S46 1 CAOPLAND 2 S#6 2	9.2 9521.8 3.6	7876-7	9079.5	10061.6 3.8	9191.5	1356.7	1.570+	2566.7	2223.9
CAOPLAND 3	380.9	380.9	363.4	104.7	369.7 1.6	380.9	1.1	227.5	
SA OPLAND	1356.2	1356.2	1293.5	1436.3	1512.2	583° 4°		0 * 5 5 4 1	
CROPLAND S46 5	982.6 B.	982.6	936,1	1030.4		9.286	98 2.0	1225.6	0.0
SADPLAND		13561.7	16852.4	18666.9	17052.2 2.8	9.4404	8337.5	6167.7	
VINEYARDS AND OACH.		000	(TONS) (ACRES) (TONS/ACRE)	JATER AREA ONLY	9.86	98.8 (ACRES)			
STASSLAND AND PASTURE	.6 39.5	39.55	.8 (TONS) 31 39.5(ACRES) JS .02 (TONS/ACRE)	JIHER LAND JSE AREA	1654.7 (ACRES)	(ACRES)			
4300LAND	59.2 652.4		39.2 (TONS) 41 652.4 (ACRES) .06 (TONS/ACRE)	41SSING DATA	3.40	0.5 (ACRES)		39.2 (TONS) 41SSING DATA Q.S (ACRES) 652.4 (ACRES) .06 (TONS/ACRE)	1
SUMMARY TOTAL POTEN	1	GROSS EROSI 13601.7 2.0	0h 16892.4 2.5	18706.9	17092.2	4084.6	6377.5	5.959.5	
PERCENT REDUCTION:	EDUCTION: 0.0	23.2	9.	-5.t	3.5	16.9	52.1		

LAKE ERIE WASTEMATER MANAGERENT STUNY U.S. ARMY CORPS OF ENGINCERS, RUFFALD DISTRICT LAND MANAGEMENT ALTERNATIVES : HFCT WANASTMENT PRACTIFE SCENARIOS

		1482.5	3192.6 1550.7 5.2	573.3 0.0	5103.6 5.0	0.0	6.6	4451.0	9627.2
ALL IN BASIN	7ECUCE) 531L MGWF. TILLEGE: 533JP LAND CMISCL PLOW 446.2 (TOWS) (ACCES)	5451.0 1482.5	5148.9 31 I.5	1118.5 5	1212.9 31	6.07	240.5		13872.7 35 1.1
		13108.5 19108.5 19.08.5 19.08	1683.3	1118.5	1212.8	4.6	78.6 7.9	CRES)	6228
CRUMINE UZ CREGEDAD. OMIO	REDUCE 5.1L SPRINS FALL BINTER MAXIMUM LOSS TO T PLOWING PLONING COVER REDUCTION AND EVISTING GNEY ONLY TILLASE TIONS, (TONS, ACCUSED (TONS, ACCUSED) (TONS, ACCUSED)	1310P.5	11535.4 3.6	1085.9	2717.1	72.2 8.	53.88.8 5.48.8	29057.4 60 3.4 3.6 (ACRES) 464.6 (ACRES) 96.8 (ACRES)	29444.0
Churk	FALL PLOWING DALY (FOYS) (TOYS/ACH!)	7373.6 126A3.5 14346.2 5.u A.1	17624.5	1188.4 2.1	2973.7 1.0	19.9	589.2 59.5	31801.1 31801.1 348EA DNLY 48EA DNLY 41551NG DATA	32216-1
33	SPRING PLONING NO ONLY (TUES) (TOS)	12683.6	11337.4	1067.3	2670.5	73.0	529.1	9719-3 28558-8 318011.1 2-5 3-4 35-4 0-0 (170%) 47ER DNLY 0-0 (170%) 37ER LAND 7-2 (170%) 35 48EA DNLY 0-0 (170%) 37ER LAND 136-4(4.5.5) 155 48E4 0.5 (170%) 41551NG DATA 939-3 (46.6.5.5) -0.6 (170%/46.7.5)	28940-2 3.0
RT-135	ERISTING POT-REDUCE SUIL SPRING GROSS LOSS TO T PLOWIN EROSION AND EVISTING GNLY TIONS) (TONS) (TONS)	_	8314.5 2.6	1118.5	2748.8	7	39.5	19719.3 287 2.0 (17045) 0.0 (17045) 0.03 (17045) 136.4(46.25.5) 0.05 (17045) 77.2 (17045) 77.2 (17045) 939.0 (16085)	GROSS EPOSIC 2009.0 2.1
HONEY CPEEK	EXISTING POT GROSS ENOSION (TONS)	13502.3	11 A B 2 . 0	1116.5	2798.H	74.4	554.5	1	SJYMART TOTAL POTENTIAL GROSS EROSION SOSS6-1 20009-0 3-2 3-1 PERCENT REDUCTION:
3451A: MON	.AND USE	STOPLAND	CROPLAND SYG	SAS SAS	CAOPLAND 546	213PLAND 346 5	CROPLAND S43 10	TOPLAND JINEYARDS AND ORCH. SARSSLAND AND PASTURE JOODLAND	SJYMARY TOTAL POTE 303 PERCENT REDUCTION:

LAKE ERIE MASTEMATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCEMARIOS
L. MOMMANK LAKE
TRIS. PELOM MOMMANK
COUNTY: 33 SEVECA. OFFIO ALL IN MASIN

SASIN: MOUMANK LAKE	HAUK LAKE	TR16.	TRIS. PELON MCERANK		COUNTY: 35 SEMECA. CHIO	CA. 0H10	ALL IN BASIN		
	EXISTING POT-AC GROSS LO EROSION AN (TOMS) (T	LOSS TO T PLONING AND EXISTING ONLY (TONS) (TONS)	SPRING PLOWING S ONLY (TONS)	FALL PLOAING JALY (TUKS) (TOKS/ACRE)	LINTER COVER CROP (TONS)	LINIER NAKINUM REDUCED COVER REDUCTION TILLAGE: CROP TILLAGE CHISEL PLOM (TONS) (TONS) (TONS) (TONS/ACRE)	TILLAGE: GAOUF TILLAGE: GAOUF CHISEL PLOW AREA (TOWS) (4CRE	STIL MEMT. GROUP LAND AREA (4CRES)	EAISTIGE SOL LOSS > 7 FACTOR (ACRES)
143PLAND 346 1	6.885. 6.885.	950.7	5.4061	950.7 1904.5 1150.2 2005.5 296.2 888.7 3.2 6.4 7.5 6.6 1.0 5.3	2005.5	296.2	888.7	296.3	237.2
CROPLAND S46 2	10431.1	6552.3	9963.0	11223.4	10431.1	1540.5	4621.4	2144.9	1798.9
243PLAND 346 3	4 0 3 . 6	+63.8 1.6	1.5	520.5	4.8 3. 5 1.6	483.6 1.6	4 88 8. **	386.4	
CROPLAND 346 4	57.8	57.6 1.	54.9	à 5.2 5.8	57.6	25.6	25.5	19.1	
CROPLAND 396 5	15.4	75.4	71.6	91.2	15.4	75.4	15.4	69.2	90
SAG B	 	10.5	9.4	10.1	10.0	::	;:	•••	• •
CROPLAND FINEYARDS LAD ORCH.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12402.6 12402.6 4.3 NS) 4.3	14056.4 14056.4 141ER 1828 JALY	13564.0 1364.0 4.5 19.4 (AC	64.6 2425.9 4.5 .5 19.4 (ACRES)	6093.5	2306.3	
STASSLAND AND PASTURE	# 85 6 • 6 • 6 • 6 •	2.9 (TOMS) 39.5(ACRES) 65 (TOMS)	A C	. JIHER LAND JSC AREA E)	. 24	69.2 (ACRES)			
1000F AND	28.6 365.7	" ×	, ACRE 1	4 ISSING DATA	19.8	19.P (ACRES)			
TITLE TOTAL POTE  151  161  161  161  161  161  161  16	MTIAL 73.0	85.0	12567.6	14171.3 13173.5 2471.3	13175.0	7.17.52 Y.17.92	6146.7		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	J • B	37.7	5.1	-7.6	o•6	81.2	53.2		

LAME ERJE VASTEMATER HANAGEMENT STJOY U.S. BRMY CJRPS OF ENSIVEERS. BUFFALO DISTRICT Land Management alternatives: Gest Management Practice Scenarios

T. 67 COUNT
LOSS TO T PLOWING PLOJING C AND EVISTING ONLY ONLY C (TONS) (TONS) (TONS/ACRE) (
43P4LAMD 770414 3162-9 10.5 11.4 10.8 110.8
*364.7 4697.8 5231.1 4779.P
379.3 361.9 403.0 368.3 1.6 1.5 1.7 1.6
26.6 25.4 28.2 25.6.8
109.1 104.1 115.9 105.9 1.1 1.1 1.2 1.1
7042.6 11907.8 13259.6 12115.8 3.1 5.3 5.9
0.0 (TONS) JATER 9.9 (ACRES) 0.0 (ACRES) AREA ONLY G.PO (TONS/ACRE)
2.8 (TONS) JTHER LAND 29.7 (ACRES) 19.8(ACRES) JSE AREA .14 (TONS/ACRE)
10.8 (TONS) 41SSING DATA 9A.8 (ACRES) 197.7 (ACRES) .05 (TONS/ACRE)
5.14447 TOTAL POTENTIAL GROSS EROSION 12492.9 7338.3 12598.1 13403.9 12614.4 2246.8 5926.1 2269.9 5.1 2.9 4.8 5.4 4.9 2.9
43,5 4.6 -6.2 2.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. AHWY COMPS OF ENGINEERS, BUFFALJ DISTRICT Land Management Alternatives: Best Management practice scewarios

	E41571V6 531L LOSS > 7 FACTOR (ACRES)	0.0	4.84 4.6	000	0.0	]					
	SOIL MEMT. GROUP LAND AREA (AGRES)	47.2 29.7	504.1	96.3	29.1	662.3				721.6	
	& F U	-	724.5	156-1	25.3	957.5			,	1013.7	50.4
A+ 3H10	F &	15.7	242.8	156.1	25.9	40.5	CRES)	CAES)	CRESI	SS EQSION 1941.5 2200.1 2045.0 466.7 1013.7 121.4 2.7 3.0 2.8 .6 1.1	2.17
COUNTY: 03 SEMECA. OHIO	* U U U U U	106.6	1645.A 3.3	156.1 1.6	25.9	932.4	9.9 (ACRES)	59.3 (4CRES)	39.5 (ACRES)	2045.0 2.8	0.0
TWINCT	FALL PLOWING ONLY (TORS)	114.6	1768.6 3.5	167.9	27.9	1834.5 2079.0 1 2.8 3.1	JATER Area only	JTAER LAVD JSE AREA	41SSING DATA	2200.1	- 7. 6
13	6 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18	106.6 101.2 3.6 3.6	1560.5	148.2	24.6		0.0 (TCNS) JATER 0.0 (ACRES) AREA 0.00 (TONS/ACRE)	ACRE)	.7 (TONS) 415. 9.8 (ACRES) .04 (TONS/ACRE)	1941.5	5.1
AT AT. 67	DUCE SOIL 155 TO T 10 EXISTING 10NS)		1148.8	156.1	25.9	1437.4	0.0 0.0 141 0.0 171	0.0 (TOUS) 0.04 (TUNS)			25.6
TVE CREEK	EXISTING POTOR GROSS L EROSION A (TONS) (	100-LAND 106-6	1643.8	156.1	25.9		0.0	0000	19.8	POTENTIAL G	0.0
3451%; BUCKEYE CREEK	S CAND USE	NOPLAND S46	CROPLAND S45	CAOPLAND S46	SROPLAND	CROPLAND	JIVETARDS AND ORCH.	JAASSLAND AND PASTURE	4300LAND	SJAMARY TOTAL POTENTIAL GROSSO 2045.0	

LAKE ERIE HASTEJATER MANAGEFUT STUDY LAND MANAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCENARIOS

3451h: RUC	3451h: RUCKEYE CREEK	AT PT. h7	1,1	אוויי ט	COUNTY: 11 STANDOT. OHIO	00T+ 0HIC			
.140 USE	EXISTING POT- GROSS EROSSON (TONS) (TONS/ACRE)		SPRING PLOWING 5 ONLY (TONS) (TOYS/ACPE)	FALL PLUING ONLY (TONS)			3 ^	5016 46MT. 3300 640 AREA (AGRES)	5012 LOSS 5012 LOSS 5014 L
CAOPLAND S46 1	40PL AND 63.4	4994 6195 500 602	61.5	57.P 6.R	6 1 4 9 6 4 3 6 4 6 4	0 e	26.3	6.6	6.6
CROPLAND S46 2	348.2	346.2	337.4	372.5 2.7	340.1	P. 99	1 + + + 6	139.4	000
STOPLAND STG 5	13.1	13.1	12.6	14.3	12.7	13.1	15+1	m. 4 m.	0.0
TOPLAND	1.0PLAND 424.7	-11 410.7 2.6	411.5	411.5 454.1 2.6 2.9	414.7	-1	184.0	158.2	
VINEYARDS Avd orch.	• • • •	0.0 (TONS) 0.0 (ACRES) 0.03 (TONS/A	CRE)	JATER Area only	0 • 0	0.0 (ACRES)			
34ASSLAND And Pasture		0.0 (TONS) 0.0(ACRES) 0.00 (TONS)	ACPE	JTHER LAYD JSE AREA	) 6•6	9.9 (ACRES)			
JOOOL AND	8 8 8	.3 (TONS) 9.9 (ACRES) .03 (TONS/A	.3 (TONS) 41: 9.9 (ACRES) .03 (TONS/ACRE)	MISSING DATA	0.0	0.0 (ACRES)	4 9 9 9 8 8 8	.3 (TONS) MISSING DATA 0.0 (ACRES) 9.9 (ACRES) 0.0 (TONS/ACRE)	
SUMMARY TOT	JAMARY TOTAL POTENTIAL 6 425.0	SJAHARY TOTAL POTENTIAL GROSS \$13405104	411.P	454.4	415.6 2.5	8.89	184.3	158.1	
PERCENT REDUCTION:	3UCT10N: 0.0	3.3	3.1	•••	2.4	83.9	36.5		

LAKE CRIE WASTEWATER MAMAGEMENT STUDY U.S. ARMY COAPS OF ENGINEERS, BUFFALD DISTRICT LAND MAMAGEMENT ALTERNATIVES : BEST MAMAGEMENT PRACTICE SCENARIOS

SASIN: BUCKEYE CREEK	KEVE CREEK	AT RT. 67	1. 67	NOO	COUNTY: 62 ALL IN BASIN	IN BASIN			
TAND USE	EMISTING PO GROSS EROSION (TONS) (TONS/ACRE)	EMISTING POT-REDUCE SOIL SPRING GRSS 10 T PLOWIN EROSION AND EXISTING ONLY (TONS) (TONS) (TONS)	SPAI46 PLOUING 170NS) 170NS)	FALL PLOUING OMLY (TONS)	dinter Cover Crop (Tons) (Tons/Acrf)	72	*-0	531. 680. 846. 646.	E4151146 5316, 2055 5316, 2055 5316, 2055 5416, 2055 54
CAOPLAND S46 1	7211.3	CADPLAND 1211.3 3319.0 6682.2 546 1 10.7 4.9 10.2	6861.2	7663.9	7004.5	1021.8	3124.8	672.1	642.5
SHOPLAND SHG 2	6915.5	1861.7 2.6	6595.7 5.5	1372.0	6763.7 3.6	967.1	3006.4	1961.9	1116.9
CROPLAND 346 3	535.4	. 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	510.1	570.9 1.1	524.3	535.4 1.6	535.4 1.5	336,1	0 0
2R0PLAM0 \$43 4	26.6	26.6	25.4	28.2	25.8	2 • K	10 to 0	39.5	
CROPLAND SRG 5	148.1	148.1	141.4	157.8	144.6	148.1	148.1	# 4 <b>8</b> 0 sr	4 C
1	1-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	- j	14153.6	8890.8 14153.8 15792.6 2.9 4.6 5.1	14462.9	2703.9	-1	3074.0	· · · · · · · · · · · · · · · · · · ·
VINEYARDS AVD ORCH.	9 9 9 9 9 9 9 9	300	(TONS) J (ACRES) A (TONS/ACRE)	JATÉR Grea Only	19.6	19.6 (4CRES)			
GRASSLAND And pasture	24. 24. 25.	2.8 (TONS) 19.8(ACRES) .14 (TONS)	A C R E )	JTHER LAND JSE AREA	9 9 9 9	90.6 (ACRES)			
1338.440	227.3	~	(TONS) (ACRES)	ISSING DATA	138.4 (ACRES)				
JAMARY TOT	SJAWARY TOTAL POTENTIAL GRO 15470-1	32	in 14758.7	EROSION 14758.7 16466.0 15080.7 28 2.7 4.9 4.4	15090.7	-]	7125.3	345905	2
»ERCENT REDUCTION:	UCTION:	40.0	4.6	- p. 4	2.5	41.7	55.3		

LAKE ERIE WÄSTEVATER MANAGEMENT STUPY U.S. AMMY CORPS OF ENGINCERS. RUFFALO DISTRICT Land management alternatives : Mist Management Practice Scrnaring

**X** 

r: :2 C*'*5340* OHIO	MAKIMUM QEDUCED 531L 454TA MEDUCITON TILLAGE 540MP LAVN TILLAGE CHISEL PLOW 49EA (TOYS) (TOWS) (ACGES)	C.5944.5 935.7 2455.9 701.8 701.8 9.1 9.4 9.1 1.3 4.1	12776.6 2739.9 8381.3 4240.3 3459.5 4.4 .4 2.3 5.0	1690.7 1123.5 1123.3 701.9 0.0 1.6 1.6 1.5 0.0	226.8 101.2 101.2 257.0 0.0 .9 .4 .9 0.0		26576.7 4945.2 12548.5 5980.0 4.4 .8 2.1	89.0 (ACRES)	257.¢ (ACRES)	
COMELINACE MY HONEY OR COUNTY	FALL PLOBING DALY (TOAS)	7.102.4	18454.2 20549.5 4.4 4.9	1072.0 1193.7 1.5 1.7	222.9 248.2 .9 1.0	82.9 92.3 1.0 1.2	26120.5 29086.1	AATER ) ARTA JNLY ACRE)	JTHER LAND JSE AREA ACRE)	ATAC SMISSIF.
101 HT38.00	AREDUCE SOIL SPRING LOSS TO T PLOWING AND EDISTING SALY (TONS) (TONS)	-1	12283.7 18 2.9	1123.5 1	233.6	86.9	17236.6	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	.9 (TONS) 9.9(ACRES) .ng (TONS/ACRE)	49.3 (TONS)
VER CREEK	EXISTING POT.88 GROSS EROSION A (TONS)	-1	19340.7	1123.5	233.6	86.9	1	000	 	69.3
BASIN: SILVER CRIEK	-449 USE	CROPLAND S45	2132LAND S46 2	CROPLAND S46 3	STOPLAND STE	CROPLAND S4S 5	J	VIVEYARDS 443 ORCH.	33ASSLAND Ang pasture	WOODL AND

LAME ENIE WASTEWATER MANAGEMENT STUDY
LAMB NAMAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

750 086	CRUSTING POT GROSS EROSION (TONS)		SPRING PLOMING CONLY (TONS)	FALL PLOUING ORLY (TONS)	EINTER COVER CROP (TONS)	MAKINUM REDUCTION TILLAGE (TOYS)	4EDUCES TILLAGE: CMISEL PLOW (1045)	SOIL MENT. Stoup Lavo Area (Acres)	FKISTING S31L LOSS > 7 FACTOR (ACTOR)
CROPLAND	1005/ACRE)	1003/ACRE)	11000 LL 1528.0	•	•			6.664	1
SAG 2	18229.6	15898.8 3.8	17306.1	19613.5	18229.0 3.5	2692.1	8076.2	5258.4	593.1 6.9
CROPLAND 346 3	3018.4 1.6	1018.4	966.9	1095.8	1618.4	1018.4	1619.4	642.5	0.0
CROPLAND SMG 4	36.2	36.2	36.2	I & .	5.08	16.9	16.3	***	90
STOPLAND 5	150.9	150.9	143.2	162.3	150.5	150.9	150.3	158.4	90
CROPLAND S46 B	1.0	1.0	38.1 1.0	43.2	1.0	17.8	17.9	39.5	9 0
I	1	-1	20010.5	-1	21077.8	4132.6	-1	6573.0	[
VINEYARDS And orch.	0 0 0	0000	(TONS) 4A (ACRES) AR (TONS/ACRE)	JATER AREA ONLY	79.1 (ACRES)	ACRESI			
STASSLAND And Pasture	19.8 10.8	19.8(ACRES)	ACRE)	JYHER LAND JSE AREA	395.4 (ACRES)	ACRESI			
433BLAND	62.0 1294.6 .05		2.0 (TONS) 41 4.8 (ACRES) .35 (TONS/ACPE)	4 ISSING DATA	158.1	(ACRES)	•		
SJAMARY TOT	NTIAL 63.9 2.7	GROSS ERGSION 19050.9 20475.2 2.4 2.5	20475.2 2.3	23196.8 2.3	21553.5	4279.1	11253.5	23196.8 21553.4 4279.1 112533.5 9045.7 2.3 2.7 4579.1 1.253.5	
PERCENT REDUCTION:	3UCT10N: 0.0	11.7	ů.ů	-7.0	0	2	\$2.5		

LAKE ERIE UASTEVATER MANAREMENT STUTY U.S. ARMY COAPS OF ENGINEERS. BUFFALD DISTRICT Land management alternatives : Rest Hawagement Practice Scriamic

JASIN: SIL	SILVER CREEK	CO.4.00	CONFLUENCE U/ MON'Y CR	FY CR COUNTY:		62 .IL IN BASTW			
	EXISTING POT- GROSS EROSION (TONS)		SPRING PLOWING G ONLY (TONS)	PLOWING ONLY (TCAS) (TORS/ACRE	70000	divier Maximum Cover Reduction Cand Tillast (Thus) (Tous)	AEDUCED TILLAGE: CHISEL PLOU (TONS)	SOUR LAND GROUP LAND AREA (ACLES)	ECTSTING SOIL LOSS > T FACTOR (ACRES)
SAG 3	-[	4976.5	7808.5	-1	-	1170.1	3565.2	7999.4 1170.1 3565.2 1106.5 7.c 1.0 3.1	751.2
240PLAMD 2	37569.7	28182.5 3.9	3"760.3 3.A	46143.0	37305.t	5432.0	15457.1	7.86.6	4052.5 5.3
CROPLAND S	2141.9	2141.9	2338.8	2289.5	2109.1	2141.9	2141.9	N	00
: 13PLAND 546	271.7	271.7	259.1	289.2	264.9	118.1	119.1	306.4	• • •
STOPLAND	237.7	237.7	226.1	254.6	235.2	257.7	237.7	217.5	•••
313PLAND SMG B	46.2	40.2 1.0	39.1	43.2	10.2	17.8	17.9	39.5	
I	1	35850.5	46130.9	51764.6	47654.4 3.8	9117.6	-1	12555.0	
VINEYARDS AND ORCH.	000	0.00	(TONS) JA (ACRES) ARI (TONS/ACRE)	JATER Area only	158.0 (ACRES)	ACRES)			
STASSLAND IND PASTURE	1.3 29.7 .64	1.3 (TOMS) 29.7(ACRES) .04 (TOMS)	ACRE!	JTHER LAND JSE AREA	652.4 (ACRES)	ACRES)			
400DLAND	111.2 1957.1		(TONS) 41: (ACRES) (TONS/ACRE)	41SSING DATA	227.3 (ACRES)	ACRES)	•		
SJMMARY TOTAL POTE 493 2:RCEVT REDUCTION:	24.5 5.5 5.5	- g	46966.3 46966.3 5.2	12698-1 52698-1 5.6	44513.6 3.3	9374.4	055 FROSTON 46966.3 92698.1 44513.6 9374.4 25004.4 1476 36525.2 5.5 3.2 3.6 3.3 6 1.5 81.0 55.1	:	
		1 1							

U.S. ARRY COMPS OF ENGINEERISE SUFFICIOUS.		
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LANG SPREEL			3 80 83 W G G G		COUNTY: 62 CRAUFORD. ONTO	FORO. OHIO			
BASIN: SILVEN CREEK	EN CREEK	00 mm	DOSMSINCEN TRUE SPREN						20143143
Jen Dat	EXISTING POT GROSS EROSION (TONS)	EXISTING POT. REDUCE SOIL SPRING EROSS LOSS TO T PLOUIS EROSION AND EXISTING ONLY (TONS) (TONS)		FALL PLOUING JALY (10hs)	4 I V FER COVER CROP (TONS)	721900 75005100 71666 (1005) (1005/466)	REDUCED TILLAGE: CHISEL P_DAL (TONS) (TONS/ACRE)	SOIL REMI- BROUP LAND AREA (ACRES)	- •• ••
1	410MS/ACRE)	350			6398.3	933.7	2655.3		701.6
_	19340-7	12283.7	18454.2	20549.5	18776.6	2739.9	8381.0	+2+B.3	8.988. 6.8
S46 2	4.6 1123.5 1.6	1123.5	1072.0	1193.7	1090.7	1123.5	1123.5	701.8	
CROPLAND	233.6	233.6	222.9	248.2	226.6	101.2	101.2	257,0	
SAG SAG S	86.9	86.9	82.9 1.0	1.2	3.1	1.1	101	19.1	0.0
Z ONFIND	1375.2	7	11236.6 26120.5 29086.1	29686.1	26576.7	26576.7 4985.2	12548.5	5380.0	
IT VEYARDS	000	0.00	(TONS) 41 (ACRES) AR (TONS/ACRE)	4ATER 4rea only	37.0	89.6 (ACRES)			
SZASSLAND 440 PASTURÉ	 	9.96A	.9 (TONS) 31 9.9(ACRES) 15 .09 (TONS/ACRE)	STHER LAND JSE AREA	253.0	257.0 (ACRESI			
HOODLAND	49.3 662.2	662.2	49.3 (TONS) 4.562.2 (ACRES) 4.07 (TONS/ACRE)	YISSING DATA	2.69	69.2 (ACRES)		49.3 (TONS) MISSING DATA 69.2 (ACRES) 662.2 (ACRES) .07 (TONS/ACRE)	1
SJAMARY TOT		~ °	26442.9 3.9	29439.4	26903.9	5087.8	12723.4	6721.5	
PEACENT REDUCTE	. NO	-	9.4	-6.2	5.5	81.6	54.1		

BASIN: SILVER CREEK	VER CREEK	SNEED	DOLUSTREAM FROM MADSH		COUNTY: 13 EFFECA. DHED	C4+ 2HF2			
LAND USE	EXISTING PO GRCSS CROSIGN (TOMS)	<i>:</i>	MEDUCE SOIL SPRING LOSS TO 1 PLYDING AND FRISTAM OWLY (1005) (1005/ACRE) (1005/ACRE)	E E	LINTER COVER (500 (1345) (1708/ACP <sup>()</sup> )	E & P		\$316, 4647. \$10JP LAVO 44EA (4CPES)	10085426
SAS 1	221.9	98.8 201.2		228.5	228.0 231.9 11.5 10.7	31.3	93.9	19.3	19.9
CROPLAND SWG 2	8628.4	AGR4.7	K141.6	4.80 #5.50	6626.4	1274.2	3822.7	2332.7	138.4
CROPLAND 543 3	439.6	439.6	117.4	473.0	439.6	4.59.6	439.5	276.9	<b>\$</b> 0
CROPLAND	8. 8.	ne.	D. C.	0.6	e. 			6.6	00
CROPLAND SMG 5	118.5	118.5	112.5	127.5	118.5	118.5	118.5	108.7	9 0
1	9406.7	8749.9	-1	10121.3	9466.7	1867.3	1479.4	2147.9	
FINEY ARDS AND ORCH.	9 9 9 9 9 9	0.9 (TONS) 0.0 (ACRES 0.00 (TONS)	ACRES .	JATER Area duly	6.6	9.9 (ACRES)		•	
J44SSLAND AND PASTURE	400	0.0 (TONS) 0.0(ACRES) 0.05 (TOVS)	ACRES	STHER LAND USE AREA	148.5 (40455)	ACRES)			
JOODE AND	23.7 523.9	23.7 (TONS) 523.9 (4C4ES) 675 (TONS/A	3.7 (TONS) 41: 3.9 (4C4ES) .rs (TONS/ACRE)	ISSING DATA	9.3	9.9 (ACRES)	•	•	
TOT YARRES	SJAMARY TOTAL POTENTIAL 9458.9	70	8981.4	10175.7	9458.9	1896.7	4515.7		
PERCENT REDUCTION:	UCT 10N:	,		•	0	4	8.04		

LARE ERIE DASTELATER HAVAGETET STUDY U.S. ARMY CORPS OF FNGINEERS, BUFFALO DISTRICT Land Management Alternatives : Best Management Fractice Scenarius

SASIN: SILVER CREEK DOWNSTREAM FROM MARSH COUNTY AND HSF FRISTIME POTARFOURE SOIL SPRING FALL	ROM MARSH FALL	ROM MARSH Fall			COUNTY: 62 ALL IN BASIN	IN BASIN	REDUCED	SOOL MENT.	97
#EDUCE SOLL SPRING FALL LOSS TO T PLOUING PLOUING AND EXISTING ONLY (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	AND EXISTING (TONS/ACRE)	PLONING PLONING (CONLY (TONS) (TONS) (TONS)	PLOWING ONLY (10NS) (10NS)		COVER CROP (TONS)	REDUCTION TILLAGE (TONS) (TONS/ACRE)		COUCCO SJE MANIELE STAND LAND MISEL PLOW AREA TONS) (ACRES)	
INCPLAND 68825 3607.7 6489.7 7250.5 10.0 10.0	3687.7	6489.7 7230.5	7250.5	7	6610.2	965.0		721.5	
27969.1 20368.4 26645.8 29833.3 4.3 3.1 4.5	26645.H		29833.3		27405.6	4014.2	12203.7	4573.0	3597.9 5.1
1563.1 1563.1 1489.4 1666.7 1.6 1.6 1.5	1489.4		1666.7		1530.3	1563.1	1563.1	976.5	•••
241.9 241.9 230.6 257.2 .9 .9 .9 1.0	230.6 2	~	257.2		235-1	104.5	104.3	266.3	0.0
205.4 205.4 195.4 219.6 1.1 1.1 1.0 1.2	195.4 2	~	219.6		202.9	205.4	205.4	187.5	5 · 0
132LAND 36782.0 25986.5 35051.1 39207.5 35343.5 6452.6 17026.7 9727.7	25986.5 35051.1 39207.5 3.0 4.5	35051.1 39207.5	39207.5	+	35383.5	6832.6	17026.3	9727.7	
0.0 0.0 (TOMS) JATER 0.0 0.0 (ACRES) AREA ONLY 0.00 0.00 (TOMS/ACRE)			TER Ea dalt		98.6 (	9P.F (ACRES)			
.9 .9 (1745) )THER LAND 9.9 9.9(ACRES) JSE AREA .09 .09 (10NS/ACRE)	ACRE)	ACRE)	HER LAVD E AREA		405.3 (ACRES)	ACRES)			
73.0 73.0 (TONS) 4155ING DATA 1186.1 1186.1 (ACRES) .06 .06 (TONS/ACRE)	73.0 (TONS) 1555NG DATA 1186.1 (ACRES) .06 (TONS/ACRE)	TONS) 41SSING DATA ACRES) TONS/ACRE)	SSING DATA	•	79.1 (4CRES)	ACRES)			
SJAMARY TOTAL POTENTIAL GROSS EROSION 3546.5 3554.6 5514.7 17237.1 13002.9 3.7 26268.1 35405.0 39594.5 3540.6 57 1.7 17237.1	GROSS EROSION 35405.0 39594.5 2.6 2.6 4.0	N 35405.0 39594.5 3.5 4.0	395944.5	<u> </u>	35.344.6 3.6	1.186a	17237.1	10002.9	
32RCENT REDUCTION: 0.0 29.3 4.7 -6.6	1.4		-6.6		2.2	81.2	53.6		

U.S. ARMY CRRPS OF FMSINCERS. BUFFALO DISTRICT MARGEMENT PRACTICE SCENARIOS	
U.S. DAMY COMPS OF FI	
LAKE ERIE MASTEVATER BANGAERENT STUFY 1 AND BANGERENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCENARIOS	

	1, FR1311W6 40 531L (085 531L (085 6 (1085ACRE)	-	148. E. 1			0.0	•			1	•	
	\$311 MENT, 34312 LAUG AREA (ACRES)		3676.9	522.7	79.1	<u>:</u>	5517.7			[	5916.7	
	22000	2797.5	7613.5	197.3		1.1	11583.3				2.0	7.05
FORD. ONTO	MAXIMUM REDUCTION TILLAGE (TONS)	911.5	2449.0	997.8	ner d	1.1	4582.5	49.0 (ACRES)	247.1 (ACRES)	39.5 (ACPES)	\$ 57.00 8 .	
COUNTY: UZ CROUFORD. ONTO	JAYTER COVER (ROP (FOMS)	6245.2	17057.5	968.0 1.f	220.3	7 • • • • • • • • • • • • • • • • • • •	24575.1	0.64	247.1	3995	24784.1	
	REDUCT 501L SPRING FALL 4194ER AND EVISTING ONLY CROP (100MS) (100MS) (100MS) (100MS)	5-50 P. S.	17667.F	1059.4	241.1	92.3 1.2	26895.5	JATER AREA ONLY	JTHER LAND JSE AREA	HISSING DATA	27120-1	•
UPSTREAM FROM MARSH	SP# 126 0136145 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6138.0 P.R.	16764.4	1.5	216.5	1.0	24153.1	9.0 (TOMS) JA 9.0 (ACRES) AM 0.00 (TOMS/ACRE)	.9 (fons) 31 9.9(ACRES) JS .39 (fons/Acre)	42.5 (TONS) 41 543.6 (ACPES) .08 (TONS/ACRE)	24359°3	
UPSTEE	LOSS TO T SPRING LOSS TO T PLOUS AND EXISTING ONLY TONS) (TONS)	3459.5	10755.7	947.0	226.9	1.1	15526.0	0.0	4)6.6 4)6.6	42.5 (TOMS) 543.6 (ACPES -08 (TOMS)	680SS EROSIO 15674-1 2-7	
CASC MARKET PLANTS OF STREET	EXISTIMA POT-MEDUCE 501L SPRING 600SS LOSS TO T 9LYBIN FROSTON PARD EXISTIMA ONLY TONS) (TONS)	11005/246 11005/246 146 1 9.3	17569.7	997.0	226.9	1.1	1.40PLAND 25513.3 15526.0 24153.1 26695.5 24575.1 4.6 .9 2.2 2.2	0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	42.5 42.5 42.5 (TOMS) *ISSING DATA 39.5 (ACPES) 543.6 543.6 (ACPES) .08 (T)VS/ACRE)	SUMMARY TOTAL POTENTIAL GROSS ERGSION SUMMARY TOTAL 25527.3 15674.1	JCT 104:
Labo nataringa.	350 024	STOPLAND STG 1	CROPLAND S46 2	230PLAND SYG 3	CROPLAND S46	210PLAND S46 5	1-0PLANO	JINEYARDS AND ORCH.	SRASSLAND And Pasture	POOPLAND	SURBARY TOTA	PERCENT REDUCTION:

LAND	LABO MANAGERICA ALLEMENTALS 1.200.	TERNATIVES :	LANG MANAGEMENT ALIGNMATIVES : BEST MANAGEMENT PRACTICE SCENARIOS	TAL PRACTICE	SCE WAR 10S	PRACTICE SCEWARIOS		•	
SASIN: SILVER CREEK	VER CREEK	112 AU	UPSTREAM FROM MARSM		COUNTY: 83 SENECA, OMIO	.CA. 0H10			
LAND USE	EXISTING POL GROSS EROSION (TONS) (TONS/ACRE)	÷	REDUCE SOIL SPRING FALL MINTER LOSS TO T PLOWING PLOWING COVER AND EXISTING ONLY TAPP TONS) (TONS) (TONS) (TONS) (TONS) (TONS/ACRE)	FALL PLOUING JALY (TOMS)	LINTER COVER CADP (TONS)	* =	~ - 11 ·	EDUCED SOIL MEMT. ILLAGE: GROUP LAND MISEL P.DJ AREA TOMS) TOMS/ACRES	E41571W6 501L L055 > 7 F4CTOR (4CRES) (1045/ACRE)
SASPLAND 1	155.7		49.4 147.8 5.0 14.9	167.5	155.7	23.0	→	6.6	1.51
CROPLAND 346 2	4974.8	4568.7 3.8	4722.9	5352.6 4.6	4974.8	734.7	2204.0	1176.2	118.6
SASPLAND SAG 3	126.2	126.2	119.8	135.8	126.2	126.2	126.2	19.1	9.0
CAOPLAND S46 5	32.3	32.3	30.7	34.8	32.3	32.3	32.3	29.7	
100	5289.0	4716.6	5021.2	5690.7	7	5289.0 916.2 4.1 .7	-]	1294.3	
TINEYARDS AVD ORCH.	0 0 0	300	0.0 (TONS) JAI 0.0 (ACRES) ARE 0.08 (TONS/ACRE)	JATER AREA ONLY	0.0	U.O (ACRES)			
SAASSLAND And pasture		900	0.0 (TCNS) 3TP 0.0(ACRES) JSE 0.00 (T3NS/ACRE)	JIMER LAND JSE AREA	29.7	29.7 (ACRES)			
OODLAND	138.4	1 36 . d	6.0 (TONS) 413 138.4 (ACRES) .04 (TONS/ACRE)	41SSING DATA	8.0	0.0 (ACRES)		400DLAND 6.0 6.0 (10MS) 41SSING DATA 0.0 (ACRES) 138.4 138.4 4ACRES) .04 (1CMS/ACRE)	
SAMARY TOTAL POTE	SIMMANY TOTAL POTENTIAL GROSS FROSION 8295.6 4722.6 535.9 5.1 5.3	6ROSS FROSIG 4722.6 5.3	3.5	5696.7	5295.0	922.2	2437.5	1 + 33 - 3	
'THE BALLE	0.0	10.5	5.2	-7.5	9.0	82.6	54.0		

BAS14: 51	BASIW: SILVER CREEK	UPSTR	UPSTRFAM FROM MARCH		COUNTY: 62 ALL IN RASIN	IN BASIN			
Trwb use	EXISTING POL GROSS FROSIDY (TONS)	<b>.</b>	SPRING PLOUING G DYLY (TONS) (TONS)	REDUCE SOIL SPRING FALL WINTER HADINUM REDUCED LOSS TO T PLOWING PLOWING COUPR REDUCTION TILLNEE: AND EXISTING JULY ONLY CROP TILLNEE CHISEL PLOW TOWNS (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS/ACRE) (TOWS/ACRE) (TOWS/ACRE)	COVER COVER CROP (TONS)	MAYIMUM REDUCTION TILLAGE (TOYS)	REDUCED TILLAGE: CHISEL PL34 (TONS)	\$016 4647. \$100 640 \$164 (4645)	EXISTING SOIL LOSS > T FACTOR (ACHES) (TONS/ACRE)
1.0PLAND 546 1	6588.6		5285.8 9.0	3508.9 5285.4 7002.4 5.0 9.0 10.3	6.00.9	0.000 0.000 0.000 0.000		2856.5 701.9	101.0
SAUPLAND 346 2	22544.5	15264.4	21487.4	24020.5	22032.1	3223.7	9817.6	4953.1	5291.4 5.2
CHOPLAND 343 3	1123.2	~	1071.1	1195.1	1094.1	1123.2	1123.2	701.4	00
C40PLAND S46	226.9	226.9	216.5	241.1	220.3	98.8	8. ee	247.1	9.0
STOPLAND STS	119.2	119.2	113.6	127.1	116.6 1.1	119.2	119.2	108.7	90
J	30602.4	**************************************	29174.4	32586.2	29864.0	5498.7	1+014,3	6612.5	[ • • • • • • • · · · · · · · · · · · ·
FINEYARDS AND ORCH.	900		0.0 (TONS) 44 0.0 (ACRES) AR n.90 (TONS/ACRF)	JATER AREA DWLY	9.68	A9.0 (ACRES)			
STASSLAND AND PASTURE	9.9 9.9	9.90	.9 (TONS) )1 9.9(ACRES) JS .09 (TONS/ACRE)	JTHER LAND JSE AREA	276.9 (ACRES)	IACRESI			
ONVIOOP	48.5 482.0	48.5 (TONS) 6P2.0 (ACRES) .07 (TONS/A	18.5 (1045) 41 22.0 (4CRES) -07 (1745/ACRE)	TISSING DATA	39.5	39.5 (ACRES)			
3,44847 70	TAL POTENTIAL 30817-6 5-2		29381.8	32812.1	33075.2	5578.1	10100.0		
PERCENT REDUCTION:		•		\$ · \$ =	9-6	9,14	5.0		

LAKE ERIE MASTEMATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

TAND USE		LOSS TO T PLUMINA AND EXISTING ONLY (TONS) (TONS) (TONS)	CPRING PLUMING DNLY (TONS) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	REDUCF SOLL JPRING FALL WINTER MAXIMUM REDUCED LOSS TO T PLUMING PLOWING COVER REDUCTION TILLAGE; AND EXISTING JMLY ONLY CROP TILLAGE CHISEL PLOW (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS)	MAKINUM REDUCTION TILLAGE (TOYS) (TOYS)	REDUCED TILLAGE: CMISEL PLOM (TONS)	SOIL MGMT. GROUP LAND AAEA (AG4ES)	FE 15.71M6 5)1L .055 > T FACTOR (ACRES)
STOPLAND 2	36.8		15.2	11.0	15.5	2.3	6.3	16.0 15.2 11.0 15.5 2.3 4.3 9.3 1.6 1.6 .2 .7	
	16.0	<u>!</u>	15.2	17.9	15.5	2.3	6.3	16.0 15.2 17.9 15.5 2.3 6.3 9.3 1.6 1.0 1.7 1.6 .2 .1	
ATVEYARDS AND ORCH.		0.0 (TOMS) 0.0 (ACRES) 0.00 (TOMS/A	GE	JATER 44EA JULY	0	0.0 (ACRES)			
SAASSLAND Aud pasture		0.0 (TONS) 0.0(ACRES) 0.00 (TOVS)	ACRES	JAER LAND JSE BREA	•	B.D (ACRES)			
ONVIGOOP			0.3 (TOMS) 415 0.0 (ACRES) 0.00 (TOMS/ACRE)	41SSING DATA	0.0	0.0 (ACRES)			
SJUMBAY TOT	SJAHARY TOTAL POTENTIAL GR	! 2	15.2	17.9	15.5	2.3		SS EROS.ON 15.2 17.0 15.5 2.3 6.3 9.9 1.0 1.5 1.7 1.6 .2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PERCENT REDUCTION:		9.0	9. g	-6.2	3:1	95.6	56.3		

LARE EPIE MASTEVATER MANACEMENT STUCY U.S. ARMY CORPS OF ENSIMEERS. RUFFALO DISTATCT LAND MANAGEMENT ALTERNATIVES : AEGT MANANZEMENT PRACTICE SCEWARICS

					1			1 1 1	
350 OK*1	EXISTING PO GROSS ERJSIJU (TONS/ACAE)	•	SPRING PLOUING 1 JULY (TOUS) (TOUS)		FALL MINTER DNE CUVER DNE CROSS (TONS) (TONS)	1207	- LI	SOIL MENT. SAOUP LAND AREA (ACRIS)	CKISTING 531L LOSS 7 T FACTOR (ACPES) (104S/ACPE)
TAJPLAND S45 1	59.0	_	56.0	59.0 56.0 63.5	59.0	8.7	26.1 .5		
C10PLAND 346 2	17411.8	16479.H 2.6	16530.2 2.6	18754.5	17411.8 2.7	2571.4	1714.1	6375.3	237.2
CADMLAND SYS	2890.0	2890.0 1.6	2743.7	3109.5	2890.6 1.6	2890.0	2690.0 1.5	1528.6	• • •
CROPLAND S46 4	2.00.2	2.00.2	228.1	258.5 .9	240.2	106.4	106.4	286.6	
CADPLAND S46 5	10.4	10.A 1.1	10.2	13.5	10.6	10.8	10.9	6.6	000
CROPLAND SWG	1.0	1.0	38.1	1.1	1.0	17.8	17.3	39.5	
SAOPLAND SELECTION OF STREET	2065	19720.0.	19606.3 19606.3 2.3 (TONS) 4A	22220.6 22220.6 4ATER	20652.0	52.0 5605.1 2.4 5.7 39.5 (ACRES)	10765.2		
AND ORCH. Stassland And Pasture	44.6		C C C	THER LAND JSE AREA	484.5 (ACRES)	ACRES)			
400DLAND	2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		19.5 (ACRES) .04 (TOYS/ACRE)	41SSING DATA	316.3 (ACRES)	ACRES)			8 8 3 8 9 9 8
5 JANARY 101	SJANARY TOTAL POTENTIAL E 21376.6		20296.3	22997.0	21376.6	5832.2 6832.2	11162.3	#055 EROSION 20296.3 22997.0 21376.6 5832.2 11162.9 9004.2 20413.8 2.1 2.1 2.3 2.2 .6 1.1	•
PERCENT REDUCTIONS	UCT10N:	4.5	5.1	-7.6	0.0	12.1	47.9		

LAKE ERIE WASTEWATER MANAGENEMT STUDY U.S. ARMY CURPS OF ENGINEERS. BUFFALO DISTRICT Land Hamadenemt Alternatives : best was agine ut practice scenarios

BASIN: AICHO	AICHOLZ DITCH	HOMEY	NOMEY CAFER-COULTY AU- 49 COURTS - 62 ALL IN DISING	**************************************	11: 98 vil			,	
SU ONE	EXISTING POT.AE GROSS LO EROSION AM (10MS) (17	AND EXISTING ONLY (TONS) (TONS) (TONS) (TONS)	DUCE SOIL SPRING SS TO T PLOJING DI EXISTING ONLY TONS/ACRE) (TONS/ACRE)	Z _ S S	UINTER COVER CAOP (TONS) (TONS/ACRE)	MAKINUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	*-0	EDUCED SOIL MGNT. ILLAGE: 873UP LAVO MISEL P.34 44E TOMS) (ACRES)	EAISTING \$31L LOSS > 7 FACTOR (ACRES) (TOMS/ACRE)
T	59.0	59.0 59.0 56.0	56.0	6 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			26.1	•••	••
P. L & MO	17427.8	16495.7	16545.4	16751.2	17427.3	2573.6	7721.0	6385.2	231.2
PLAND	2890.0	2890.0 1.6	2743.7	3109.5	2890.6	2690.0	2690.0	1626.5	• •
210PLAMD	240	240.2	228.1	258.5	2 4 6 . 2	106.4	106.1	286.6	
CROPLAND	10.8	10.8 1.1	10.2	11.6	10.8 1.1	10.8	10.9	6.6	 
LAND	10.2	1.0	36.1	43.8	1.0	17.8	17.8 .5	39.5	
	20668.0	19135.9	19621.5	22237.5	20667.5	56.07.3	10772.1	}	
VINEYARDS And drcm.	0.00	00000	(TUNS) 4A (ACRES) 4R (TONS/ACRE)	AATER AREA ONLY	39.6	39.5 (ACRES)			
GZASSLAND AVD PASTURE	1.6	1.6 (TONS) 79.1(ACRES) .02 (TONS)	AC RF)	JTHER LAND JSE AREA	6.444	4H4.3 (ACRES)			
4000LAND	83.99 699.5	<b>90</b>	9.5 (TOMS) 41 9.5 (ACRES) .04 (TONS/ACRE)	41SSING DATA	316.3	516.3 (ACRES)	ISSING DATA 316.3 (ACRES)	[	
SJMMARY TOTAL POTENTIAL GRC SJMMARY TOTAL POTENTIAL GRC 21392-4 2-2 PERCENT REDUCTION:	11	20.2	20311.3	23013.7	21391.5	3434.3 .6 72.7	11169.7	€ 9€ 10 €	

LAKE ERIF WASTEWATER NAMAEEWINT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTAICT Land Management Alternatives : Rest Management Practice Scenarics

	FF1ST1MG SD1L LOSS > T FACTOR (ACRES) (FOMS/ACRE)	750.9	2866.4	• •	•••	6.0	•					
	SOIL MGWI. 313U <sup>3</sup> LAVO 4RE4 (4C125)	780.3	4319.4	988.1	398.5	177.9	7264.9			00DLAWD 43.8 43.8 (TONS) 41SSI4G DATA 197.7 (ACRES) 701.8 701.8 (ACRES) .06 (TONS/ACRE)	80 ° 50 ° 60 ° 60 ° 60 ° 60 ° 60 ° 60 ° 6	
			6599.1	1625.1 1.5	397.7	196.1	-I			0 0 0 0 0 0 0 0	11272.0 1.4 52.1	
749. JMIO	4 AVINUM REDUCED REDUCTION FILLAGE: FILLAGE CHISEL BLOW (TONS) (TONS/ACRE)	9.869	2157.1	1625.1	397.7	196.4	5074.9	ACRES)	ACRESI	ACRES)	5248.4	
COUNTY: 62 Ca447349+ 0MIO	LINTER CC VER (CC VER (TOUS)	4787.2	14782.4	1577.7	891.0	190.7	22229.0	79.1 (ACRES)	543.6 (ACRES)	197.7 (ACRES)	22824.0 2.8 2.8 2.9	
INDC:	PLOWING DRUY (1798) (TONS/ACRF)	3445.0 4705.0 5239.2 6.9 6.0 6.0	16178.1	1726.7	975.2	208.7	24327.9	JATER Area July	JTHER LAND JSE AREA	TISSING DATA	24974.5	
CALM BLILL RADICS	EPUCE SULL SPRING OSS TO T PLOKING ND EPETING CALY TONS) (TONS)	0.507*	14526.4	1556.7	475.7	187.4	21847.4	(1045) JATER (ACRES) AREA (1085/ACRE)	(CRF)	13.8 (TONS) 415 11.8 (ACRES) 106 (TONS/ACRE)	22433.0	
	REPUCE SULL SPRING LOSS TO T PLOWING (TOWS) (TOWS)	0.0480	12417.4	1625.1	917.8	196.4	19001.7	0.0 CA 0.0 CA 7.00 CA	3.6 (TONS) 79.1(ACRES) 605 (TONS/	43.8 (TONS) 701.8 (ACRES) .06 (TONS/A	GAOSS EROSION 19517-4 17-0	
BASIN: PROKENKNIFE CREEK		1	15226.5 3.5	1625.1	917.8	196.4	11 C10PLAND 22896.8 3.2	900	3.8 79.1	43.8 701.8	L POTENTIAL G 23508.2 2.9 CTION: 0.0	
BASIN: PROKE	LAND USE	1	CROPLAND S46	S4SPLAND S	S46 AMD	240PLAND S43	CAOPLAND	FIVEYARDS 143 ORCH-	34ASSLAND 44D PASTURE	400DL AND	SJMMAAY TOTAL POTENTIAL 23500.2 2.9 224CENT REDUCTION: 0.0	

LAKE ERIE WASTEMATER MANAGEMENT STUDY U.S. ARMY CORPS OF EMGINEERS, BUFFALO DISTAICT Land Management alternatives : best Maraciment practice scenarios

	FKISTING S) IL LOSS > T FACTOR (ACRES) (TOWS/ACRE)	6.6	80 ° 90 ° 90 ° 90 ° 90 ° 90 ° 90 ° 90 °		• •	• •				•		
	EDUCED SOIL MGMT.  ILLGE: 513JP LAVD  MISEL PLOW AREA  TOWS) (4C42S)	19.8	2046.0	.90.2	160.0	6.6	2737.3			,	8208.8 7531.2 1869.0 3839.3 3212.4 2.6 2.4 .6 1.2	
	& FU	46.1	2889.5	788.1	62.3	10.9	3789.3			•	3838.3	13.7
CA. 3415	INTER MAKINUM OVER MEDUTION ROP TILLAGE TONS) (TONS)	15.4	. 963.2	180.1	62.9	10.8	1932.7	19.1 (ACRES)	ACKES)	ACRESI	1869.0	75.5
COUNTY: 03 SEMECA, 2410	300	104.0 5.3	6522.3	786.4	141.9	10.6	7559.4	19.1 (	187.6 (ACKES)	19.6 (ACRES)	7631.2	9.0
Anco	<i>x x x x x x x x x x</i>	111.9	7017.7	639.6	152.6	11.6	8133.4 5.0	JATER Area only	JTHER LAND JSE AREA	MISSING DATA	8208.A 2.6	-7.5
COUNTY LINE RIAS	EDUCE SOIL SPRING OSS TO T PLOUING ND EXISTING DULY TONS) (TONS)	98.7	6192.1	140.9	134.7	16.2	7176.6	(TONS) 4A (ACRES) AR (TONS/ACRE)	ACRE)	CRED	7246.1	3.0
	LOSS TO T PLOUIN AND EXISTING DULY (TONS) (TONS)	61.2	6372.8 3.1	780.4	141.9	10.8	7367.1	0000	1.5 (TONS) 19.8(ACRES) .08 (TONS)	23.3 (TUNS) 434.9 (ACRES) .05 (TONS/A	GROSS EROSION 1437.7 2.3	3.5
345IN: BROKENKNIFE CREEK		104.0	6522.3	160.4	141.9	10.8	7559.4 2.8	900		23.3	SJ44AT TOTAL POTENTIAL GROSS EROSI 7631.2 7437.7 2.4 2.3	0.0
345IN: BROK		Ste 1	CAOPLAND SHG 2	CROPLAND 845 3	CROPLAND	STOPLAND STG 5	STOPLAND	JINEYARDS AND ORCH•	STASSLAND AND PASTURE	4000LAND	3J444Y TOTAL POTENTIAL 7631.2 2.4	PERCENT REDUCTION:

LAKE ERIE MASTEJATER MANAGEMENT STULY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCEVARIUS

	ER 1871 WE S31L LOSS > T FACTOR (ACRES) (TONS/ACRE)	79.1	326.2	• •	• •	• •	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	SOIL MEMT. 313UP LAND AREA (ACRES)	79.1	326.2	6.6	119.5	• •	563.2				731.7
	REDUCED 11LLAG: CHISEL >_JU (TONS/ACQE)	329.3	435.5	15.7	7.2	4. 4.	901.9				
P+ 3HI0	EK	108.9	E . N . L	16.7	74.2	8. 8.	389.1	ACRES)	9.9 (ACRES)	29.7 (ACRES)	9 6 6
TY: 14 HUB 3M+ 3HIO	WINTER COVER CROP (TOVS)	753.2	3.6	15.9 1.6	169.4	2.60 2.00	1976.4	19.8 (ACRES)	6	29.7 (ACRES)	2078-4 2.9
SALNOCO	FALL PLOWING ONLY (TONS) (TONS/ACRE)	8-24-8	1688.9 3.3	17.5	145.4	1.6	2164.2	JATER GREB ONLY	JTHER LAMD JSE AREA		
COUNTY LIVE ROAD	SPRING PLOUINS : UNLY (TOUS) (TOUS/ACRE)	750.1	8,000 8,0	15.9	168.7	F. 60 .	1968.3	(TONS) JA' (ACRES) ARE (TONS/ACRE)	ACRE)	(TONS) 41: (ACRES) (TONS/ACRE)	055 EROSION 1711-9 2061-9 2266-4 2.9 3.2 20-9 4.7 -4.7
	REDUCE SOI LOSS TO T AND EVISTI (TONS)	395.4	908.3 5.8	16.7	177.0	N 60	1632.9	0.00	0.0 (TONS) 0.0(ACRES) 0.00 (TJ4S/		
NKNIFE CREEN	GROSS FROSION (TOWS) (TOWS)	787.5 10.0	1934. h 3.2	16.7	177.0	8.8 8.9	2066.3 5.5	000	••••	****	2164.2 2164.2 3.0
345IN: PROKFUKNIFE CREEK	S O ONT	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	CROPLAND S46	140PLAND 546 3	CROPLAND SMG 4	S43 S43	20FLAND 2066.3	JIVEYARDS AND ORCH.	324SSLAND 440 PASTURE	400DLAND	SUMMARY TOTAL POTENTIAL 61 216-2 3.0 3.0

LAKE ERIE WASTEJAVER MANAGEMENT STUDY Land management alternatives : PEST Management practice scenarios

ISIV: HRE	3451V: HROKEMANIFE CREEK		COUNTY LINE ROAD	NUCO	COUNTY: 62 ALL IN BASTY	IN BASIV			
LAND USE	ENISTING POT- 68055 EROSION (10NS) (10MS/ACRE)	CDUCF SOLL DSS TO T MD EXISTING TOVS)	6 46 7ACRE 3	FALL PLDUING ONLY (TONS)	300	MAKINUM REDUCTION TILLAGE (TONS)	REDUCES TILLAGE: CMISEL PLOW (TOMS/ACRE)	SOIL MENT. GAOUP LAYO AMER (ACATS)	E41ST1N6 S21L LOSS > T FACTOR (ACRES) (TOMS/ACRE)
SAGE 1		4301.5	5553.8	6175.9	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5644.4 822.9 2512.3	2512.3	1.676	6.9.0
110PLAND SMG 2	22788.4	19768.5	21711.0	24284.H 3.6	22299.1	3264.1	9923.4	6591.5	3291.4
STOPLAND 3	2422.2	2422.2	2307.4	2563.H	2574.0	2422.2	2422.2	1492.5	• •
STOPLAND	1236.7	1236.7	1179.1	1313.3	1202.3	534.7	534.7	1284.9	G G
CROPLAND S46 5	252.1	252.7	241.3	267.9	245.0	252.7	252.7	237.2	94
I		28001.6	-I	34625.7	31764.3	7296.6	15645.8	6.58581	
VINEYARDS 440 DRCM.	•••	00000	(TONS) JA (ACRES) JR (TONS/ACRE)	JATER Jréa daly	177.9 (ACRES)	ACRESI			
GRASSLAND And Pasture	5.3 90.8	5.3 (TONS) 98.8(ACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	741.5 (ACRES)	ACRES			
4000LAND	75.2 1245.4 •86			4ISSING DATA	247.1 (ACRES)	ACRESI			
MARY TO	SURMARY TOTAL POTENTIAL GR	GROSS FROSION 28663.7 31716.4 2.4 2.6	31716.4	35425.0	32514.5	7529.9	16052.0	35425.0 32534.y 7529.9 16052.3 12177.2 2.5 2.7 2.7 .6 1.3	
osacent Aeduction:	0.0	13.9	1.1	-6.5	2.3	11.4	51.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT LAND HAMAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCENARICS

		326.2	7-067	50	5 6 5	6.0					
=	SOIL MEMT. Stoup LAND Ater (4cres)	1240.3 326.2 5.3	939.0	128.5	6.484	29.7	1158.3			•	2095.5
ALL IN BASIN	TILLAGE: CHISEL P.JA (TONS) (TONS/ACAE)	1240.3	1640.4	214.9 1.7	153.7	32.7	3482.4				3693.2
C2 CHAUFORD, ONIO		405.6	601.7	214.8	153.7	32.7	1408.5	9.9 (ACRES)	ACRESI	0.0 (ACRES)	ROSS EROSION 5181.9 7370.0 8205.6 7496.5 1419.3 3493.2 2095.5 2.5 3.5 3.9 3.6
	EINTER COVER CROP (TONS) (TONS/ACRE)	2779.9	4123-1	208.5 1.6	4.46	31.6	7467.7	9.6	59.3 (ACRES)	•	7.00 % 9.0
CPEEK P.F. HORTH AT SCOTT ROAD COUNTY:	FALL PLOUING JULY (TONS)	1630.9 2732.2 3002.4 2779.9 5.5 5.0 8.4 9.3 0.5	4512.5 4.8	228.2 1.8	376.9	34.8 1.2	7359.2 8194.8 4.0 4.4	JATER Area only	J'HER LAND Jee area	WISSING DATA	8205-6
HORTH AT SCO	REDUCF SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	2732.2	+052.4 +.3	205.0	4.808	31.2	÷	(TONS) JA (ACRES) AR (TONS/ACRE)	0.0 (TONS) )† 0.0(ACRES) JS 0.00 (TONS/ACRE)	10-8 (TONS) 41 17-2 (ACRES) -05 (TONS/ACRE)	1 1310.0 3.5
CPEEK P.F.	•	-	2938.0 3.1	214.8	13.4. T	32.7	5171.1	000	0000		<b>-</b> •
		2863.4 R-9	4247.0	214.8	354.7	32.7	7712.6	000	000	10.8 237.2 .05	POTENTIAL 07723.4 3.7
SASIN: TRIRUTARY HONEY	ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב	14.09CAND 2565.4	C4OPLAND S46	233PLAND 346 3	C10PLAND S46	113PLAND 346 5	340PLAND 7712.6	VINEYARDS AND ORCH.	SRASSLAND And Pasture	JOOOLAND	SJMMARY TOTAL POTENTIAL TOTAL

LAKE ERIE WASTEWATER HAMAGEMFUT STUDY
LAND MANAGEMENT ALTERNATIVES : DEST MANAGEMENT PRACTICE SCENARIOS

ALL IN MASIN	531L MGMT. 531L L 640UP LAND 531L L M AREA 5 T FA (14CRES) (170VSC)	1966.7 59.5 59.5 19.6 19.6 19.6 19.6	1136.5 968.7 227.3 1.2 5.0	71.4 59.5 0.0 1.9 0.0	0.0	1958.0 2382.1 [				
	~	61.0 1.5	371.6	71.4	563.4	1067.4	RESJ	ĸES)	RES	!
COUNTY: 02 CRANFORD, 3HIO	IINTER COVER SROP ITONS)	418.2	2546.2	69.3 1.8	1262.2	11 4295.9 1.8	19.4 (ACRES)	118.6 (ACKES)	0.0 (ACRES)	
COURT	PLOUING ONLY (TONS) (TONS/ACRE)	11.6	2786.7	15.9	1341.4	4731.7	AATER AREA DNLY .	JTHER LAND JSE AREA	MISSING DATA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ACKERNAN DITCH	SPRING PLOWING 6 ONLY (TONS) (TONS/ACRE)	107.8 411.0	2502.5	68.1	3240.6 .9	1	(TUMS) JATER (ACRES) JAZA (TOMS/ACRE)	ACRE)	=	• • • • • • •
ACKERN	EDUCE SOIL 0\$\$ TO T ND EXISTIN 10NS)		2163.7	71.4	1300.1	3723.0 1.6	0.000	1.0 (TONS) 29.7(ACRES) .03 (TJ4S/	N	HOSS EROSION
THAN DITCH	EXISTING POTOR GROSS L EROSION A (TONS) (	430.8	2622.7	11.4	1360.1	4+25.0	999	1.0 29.1 .03	6.7 227.3	POTENTIAL G
345IW: ACKERMAN DITCH	3. 380 011	1-1-1-1 CROPLAND S46 1	333PLAND 346 2	CROPLAND SRG 3	S46 AMD		414EYARDS 440 ORCH.	SRASSLAND And pasture	4000LAND	SJANAAY TOTAL POTENTIAL GROSS EROSION

U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT	v.
CORPS 0	SCENAR IC
U.S. BRINY	PRACTICE
LAKE ERIE WASTEWATER MANAGEMENT STUDY	LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARICS
LAKE	AND

LAKÉ ENIE MASTEDATER MANAGENENT STUDY U.S. AKMY COKPS OF ENGINCERS, BUFFALD DISTAICT Land Management alternatives : Rest Management Practice scenarius

BASIV: ROCK CREEK MEST	CREEK WEST			COUNTY		03 SETECA, 1413	ALL IN EASIN		
TAND USE	EXISTING POT-AC GROSS LO EROSION AN (TONS) (T	TAREDUCE SUIL SPRING LOSS TO T PLOBIN AND EXISTING ONLY (TONS) (TONS)	SPRING PLOBING G ONLY: (TONS)	FALL PLOUING ONLY (TONS)	ENTER COVER (TONS) (TONS/ACKE)	* *	REDUCED TILLAGE: CHISEL 2.24 (T0'S) (TONS/ACRE)	5311 MGMT. 6406 LALD A1EA (ACRES)	E4157146 531L 4055 57 F F4CTON (ACRES)
143PLAND 343 1	21727.5	7765.7	20627.4	7165.7 20627.4 23377.7 21727.5 3.3 8.7 9.9 9.2	21127.5	3288.7	9626.1	2562.5	1700.1
CROPLAND S46	50689.9	33821.7	48123.3	54539.A	50689.9 4.6	7.85.8	22457.5	11050.5	11040.6
CAOPLAND Ses	1207.0	1207.0	1145.9	1298.7	1207.0	1207.0	1267.0	761.1	0.0
CROPLAND S46	8. S.		19.2	3.6	8 . 8 .	37.0	37.0	•••	
SASPLAND S	379.6	379.6	360.5	108.4	3.8 3.8 5.0	379.6	373.5 1.0	375-6	99
J		43257.5	70336-1	79714.4	74487.5	74u87.5 12318.1 5.1 .8	33707.5		
VINEYARDS And Orch.	9.9	9.9	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER AREA ONLY	148.3 (ACRES)	ACRES)			
314SSLAND AND PASTURE	29.4 165.7	29.4 (TONS) 365.7(ACRES) .08 (TONS)	ACRE)	JTHER LAND JSE AREA	622.7 (ACRES)	ACRESI			
4300LAND	273.4 2441.4		(TOUS) 41	MISSING DATA	3864.7 (ACRES)	ACRES)		273.4 (TOMS) WISSING DATA 3864.7 (ACRES) 2441.4 (ACRES) 11 (TOMS/ACRE)	0 0 0 0 0 0 0 0
LIBRARY TOTAL	SLAMARY TOTAL POTENTIAL GROSSING SOCIETY OF STATEMENT ST		M 86278.5	97732.0	90860.1	15422.3	41544.5	21330.0	•
»ERCENT REDUCTION:	JCTION:	+1.4	5.0	-7.6	ą • o	63.0	54.3		

LAME CRIE WASTEVATER MANAGEMENT STUPY U.S. ARMY CORPS OF EVGIMEERS. BUFFALO DISTRICT Land management alternatives : rest management practice scenarios

SASINE WEADN RIVER	ION RIVER	MICA	RIL4**ON	Naco	COUNTY: 62 CRINFORD, AMID	F340. 0HI0			
JSD ONT:	EXISTING POT-4E GROSS EROSTON AW (TONS) (TONS)	1.4EDUCF SOIL LOSS TO T AND EVISITY (101.5)	16 DUCF SOIL SPRING LOSS TO T PLOJEG AND EXISTING ONLY (TOLS) (TONS) AND (TONS) AND (TONS)	FALL PLOYING JULY TOPING TOPING TOPING	700	##	REDUCES THLAGE: CHITCL SLOW (1045)	1001: LAMP 1401: LAMP 1454 1167[5]	(3037/SK01) (3037/SK01) (3017/SK01) (4018/SK01)
346 1 3 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9213.0	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		2.4KB	ភ • ២ - ១៩ - ១៩ - ១៩ - ១៩ - ១៩ - ១៩ - ១៩ -	_	3392.5	394.3	914.5
210PL4110 516 2	5676.1	4176.4	0.44 0.43 0.43	5630.7 5.0	3.5 3.6	4.40	2,59.7	1541.2	2 - C - C - C - C - C - C - C - C - C -
STOPLAND S	250.0	250.9		265.6	242.7	250.1 1.5	250.5	156-1	e 6.
STOPLAND STE	0.60 t	3.96.5	8.08.0 8.0	1.594	123.7	E P O H I	. 1.661	323.3	••
SHOPLAND SHE	136.3	156.3	1.90.1	1.5	132.4	136.3	136.3		
STOPLAND	110PLAND 15711.9			16693.9	15253.7	2684.7	7027.1	3921.3	
VINEVARDS AVD ORCH.		•••	(TONS) JA (ACRES) AR( (TONS/ACRE)	JATER GREA ONLY	39.5	39.5 (ACRES)			
Grassland And Pasture	6.60	8.8 8.8 9.4 9.0 9.0	8.8 (10NS) 31 138.4(ACRES) 58 .06 (10NS/ACRE)	JTHER LAND JSE AREA	119.6 (ACRES)	I ACRES)			
300LAND	336.3	30.6	30.6 (TONS) 41: 316.3 (ACRES) .10 (TONS/ACRE)	415SING DATA	297.6 (ACRES)	(ACRÉS)		30-6 (TOMS) 41581MG DATA 207-6 (ACRES) 316-3 (ACRES) .10 (TOMS/ACRE)	
8,4484Y TOT	SJYAAY TOTAL POTENTIAL GROS	68055 E40513V 10456.3	15857.8	17693.4	16134.0	2873.9	7455.1	3983.3	
*ERCERT REDUCTION:	0.0	37.1	:	-6.2	. 5.	02.7	199.1		

LAME ERIE MASTEWATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. PUFFALO DISTRICT LAMB MANAGEMENT ALTERNATIVES : BEST MAMAGEMENT PRACTICE SCENARIOS

SASIN: MURON RIVER	ION RIVER	MILANOM	NO.	#200 1	COUNTY: US SEARCA, ONLO	- CA O - CA - CA - CA - CA - CA - CA - C			
TAND USE	CKISTING POT-R GROSS L EROSION A (1008) ACRE) (	- REDUCE SOIL SPRING LOSS TO T PLOUIN AND EXISTING ONLY (TONS) (TONS)	SPR186 PLOWING 6 ONLY (TONS) (TONS/ACRE)	r o	30000	I &	REDUCED TILLAGE: CHISEL PLOM (TONS) (TONS/ACRE)	MGMT. LAVD S3	E415T1N6 531L L055 > T FACTON (ACRES)
TOPLAND 343 1	7502.9 8.2	7502.9 2868.9 8.2 3.1	7123.0	8072.8 8.9		1198.3	3324.1		6.16
CHOPLAND 5	41707.2	28475.F	4 * 0 0 4 6 6	. • 1/ • •	4.4	1. 3. 1	10477.	2 ° 6 5 8 ° °	E * E * P * C
STOPLAND \$45	1642.7	1642.7	1559.	17:.7.4	1.00 to 1.00 t	1:42.7	1542.1	1941.5	7.00
CROPLAND 346	303.1	303.1	1.1.6	326.7	5 3.1	3.4.5	154.5	3496	0 * 1
SAGE SAGES	114.2	114.2	196.4	122.9	114.2	114.2	114.2	133.	3
SAOPLAND 546	371.6	371.6	35.2. 1.	325.6	371.6	4	0 h .	\$05.P	~:
STOPLAND	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	33736.3	49026-9		164107	1.55.86	2:451.3	12157.4	
/INEYARDS and orch.	900 900	0.00	(TONS) 13 (ACRES) AK (TONS/ACRE)	FATON RHFA DULY	27 4 70 17	-1 (3C-ES)			
SRASSLAND And Pasture	13.0 266.9 .05	13.0 (TONS) 266.9(ACRES) .05 (TONS)	ACRE)	JTHÉR LÍND JSE AREA	672.1 (ACPES)	ACPES)			
JOOFAND	97.2	97.2 (TOMS) 1462.9 (ACRES) .07 (TOMS/A	(TONS) 41 (ACRES) (TONS/ACRE)	4ISSING DATA	217.5 (ACRES)	ACRES)			
1448A 101	NTIAL 61.9	GROSS EROSION 34376.2 2.4	49906-1 3-5	56545.4 52561.9 9580.9 24343.1 14114.7	52561.9	9580.9 7.	24343.1	14114.7	
PERCERT REDUCTION:	UCTION: 0.0	34.6	5.1	-7.6	3.0	81.8	53.1		

LAKE ERIE WASTEUDTER PANDRÉMENT STUDY U.S. ARMY CORPS OF ENGINEERS. PUFFALO DISTRICT Land mandeement alternatives : pest mandsiment practice scenarios

BASIN: HURD	HURDN RIVER	MILAN. JH	H(.	NO CO	COUNTY: DA HUR	DA HURON. OHIO			
		TOREDUCE SOIL SPRING LOSS TO T PLOUING AND EXISTING ONLY (TOWS) (TONS/ACRE)	SPRING PLOWING G ONLY (TONS) (TINS/ACR:	ROSS LOSS TO 7 PLOWING PALL WINTER NAXIAUN R ROSSON AND EXISTING ONLY ONLY CRAP TILLAGE C TONS) (TOWS) (TOWS) (TONS) (TONS) (TONS)	VIVIER COVER CROW (170%)	44X14U4 REDUCTION 71LL46E 17DVS) (TONS/4CRE)	REDUCED SOIL TILLAGE SAOU CHISEL PLOW AREA (TOMS) 14C%	531L MG#1. 540UP LAND 41E4 14C%53	ERISTING SOIL LOSS > 7 FACTOR (RORES)
CAOPLAND S46 1		115227.4	25H775.6	2845454	259849.4	37581.5	113819.5	113819.5 25944.1	25040.1
CROPLAND S4G 2	159863.6	1.00+0+1 0.0	1522A1.1	167446.0	152012.9	22115.5	66979.1	47355.2	3.5
CROPLAND S43	85449.5	76723.5 2.8	91396.6 3.0	89502.4 3.3	41734.3 3.0	85449.5	85449.5 5.1	27484.0	226A9.2 3.2
CROPLAND S46 4	28420.8 1.5	28420.2	27072.2	29768-2 1-5	27184.6	11907.3	11907.3	19538.6	8 C
SAS SAS	22504.0	22504.0	21436.6	23571.3	21525.5	22504.0	22564.8	19017.5	2 D
CROPLAND S46	104.1	104.1 1.2	49.2	109.0	99.6	43.6 8.	8.8 8.8	Ø • 6 K	000
T-1	110PLAND 568082.2 3	383422.4	541061.3	83422.4 541061.3 594942.7 2.6 3.9 4.3	545506.3 [7950].4 345506.3 [7950].4	179501.4	300701.1	# * * * * * * * * * * * * * * * * * * *	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FINEYARDS AND ORCH.	298.5 365.7	298.5 (TONS) 365.7 (ACRES) .62 (TONS/A	) ACRE)	JATER Area only	. 4618.4 (ACRES)	IACRESI			
SRASSLAND AVD PASTURE	7094.4	442.9 (TOMS) 7094.4[4CRES] .16 (TOWS!	ACRE)	) THER LAND JSE AREA	12594.9 (ACRES)	ACRES)			
4300LAND	1976.7 22377.8 .09	1976.7 (TOMS) 22377.8 (ACRES) .09 (TOMS/A	76.7 (TOMS) 7.7.8 (ACRES) .09 (TOMS/ACRE)	TISSING DATA	5746-1 (ACRES)	ACRES			•
THE TARRETTS	19 0 . 6 3 . 4	6468	555855.4 555855.4	610933.3	55A15B-2	176368.4	310157.4	S ERCSION 172435.4 610933.3 55A150.2 1A6368.4 310157.4 172432.4 172432.4 2.5 3.2 1.1 1.9	
ונים או ארחמ	0.0	32.3	+:1		4.3	64.1	45.3		

CORPS OF ENGINEERS BUFFALO N Y BUFFALO DISTRICT F/6 5/1 LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN.(U) MAR 79 AD-A079 639 UNCLASSIFIED NL 3 4 4

LAKE ERIE WASTEWAYER MAMAGEMENT STUDY
LAND WANALEMENT ALTERVATIVES : BEST WANAGEMENT PRACTICE SCENARIUS

SASIN: MURON RIVER	ION RIVER	41LAN DH	HQ#	MUOT	COUNTY: STERIE ONIO	• 0410			
350 Q4V.	EVISTING POT GROSS ERGSION (TONS)	<u>:</u>	SPR 186 PLUL ING 0 3%LY (TONS) (TONS/ACET)	W 7	3000-	MAXIMUM RENUCTION TILLAGE (TOMS) (TOMS/ACE <sup>2</sup> )	Z = 0 = = =	CSTEE	24 15 11 NG 53 16 10 SS 5 7 FACTOR 1 ACRES1 (1 TONS/ ACRE)
NOPLAND S46	13PLAND 4562.7	4421.6	4314.1	4£11.2 2.4	4367.4	2636	1661.3	2,066.3	227.3
SAGE AND 346	3897.4	3647.4	36.85.1	41 19.7	3730.6	6,36.4 6.2	1697.5	2936.9	
240PLAND 546 3	1476.5	1476.5	1396-1	1556. 1	1413.3	10/6.5	1476.5	751.2	00
S10PLAND 546 4	2658.8	2656. H	2514.1	2203.4 6.9	9.848	1076.6	1,996.6	3192.5	
243PLAND 546 5	1454.9	1425.8	1356.7	1513.1	1.73.5	1434.7	E + 34 + 3	1512.3	19.h 1.5
STOPLAND 8	8°	F * # S F	335.5	373.6	539.1	146.1	146.1	454.7	00
STOPLAND SR6 10	14713.8	474.4 3.0	13912.3	15215.4 98.1	1+084.1	16+9.3	6008.7 59.4	158.1	156.2
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	29098.4	1+708.8 1+308.8	27513.3 2.5	30693.6	27853.0	7129.7	13712.2	10912.2	• • • • • • • • • • • • • • • • • • •
VINEYARDS AVD ORCH.	19.6	19.61	(TONS) JA (ACKES) AR (TONS/ACRE)	JATER Area only	257.0 (ACRES)	4CRES)			
31ASSLAND And pasture	5000 5000 5000	82.7 (TONS) 880.6(ACRES) .18 (TONS)	ACRE)	JTHER LAVD JSE AREA	909.3 (ACRES)	ACRE S)			·
490DLAND	1373.6 2253.6		(TONS) 41 (ACRES) (TONS/ACRE)	41SSI4G DATA	147.A (ACRES)	ACRES)	,		•
SJAMAKY TOT	SJANAKY TOTAL POTENTIAL 30966.4 2.2	60055 ERUSION 29563.0 325 16.25 1.2 2.1 3.25	29363.0 2-1	32572.5	29734.3	4.3 8702.7 2.1 .6	15373.5	14174.0	
SERCENT REDUCTION:	UCTION: 0.6	1.14	5.5	-5.2	7	71.9	\$0.4		

THE COLE PRESENTED REVELLED FOR STUDY U.S. AMPT FORMS OF CONTACTOR WIFES COLUMN ALTERACTOR OF THE STATE OF TH

	7157746 3311 L955 31 F4C134 (ACR55) (1045/ACR5)	35.7.5	8.1944 8.6	••	• •	• •						
	(S-c)	15002.5 5.597.4	1380.5	535.7	1343.8	165.1	11011.0			423.6 (TOMS) 41551%G DATA 0.0 (ACRES) 2550.4 (ACRES) .17 (TOMS/ACRE)		
	~ - 1)		11PA4.3	652.3	. 55.7	205.	-1				29696.5	45.3
LASSO ANTO	41014 PARTON CONT. CONT. 1100400 110040 110040 110040 110040 110040 110040 110040 110040 110040040 1100400 110040 110040 110040 110040 110040 110040 110040 110040 11004000 1100400 1100400 1100400 1100400 1100400 1100400000 1100400000400000000	5451.6	**25.5	652.9	455.7	206.4	10992.1	ICRESI	ACRES)	ICRESI	11550.5	11.1
COUNTY: IN PICHEMIN ONIO		21:39:3	21.055.5	552.5 1.2	130.4	306.4	51284.9	116.6 (ACRES)	1591.4 (ACRES)	0.0 CACRES	51 34 54 54 54 54 54 54 54 54 54 54 54 54 54	•
I Popular		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20072.8	724.5	921.5 .1	229.1 .6	-1	JATER AREA ONLY	JTHER LAND . JSE AREA	TISSING DATA	57472.2	-10.9
<b>;</b>	PL31 Per 30 V (Tries) (Tries)	27594.6	213' 1.5	5.6	4.00.2 4.00.2	203.9	9.65905	(10NS) JATER (ACRES) AREA (13VS/ACRE)	ACRES	3.6 (TONS) 41S 10.4 (ACRES) 17 (TONS/ACRE)	51217-8	1.2
HIL!" "	DUCE SELL SS TO T P. EVICTIVE DNS)	17524.1	156 26.07	5.20.0	#30.4	285.4	34295.1	9.00	134.4 (TONS) 699.5(ACRES) . 15 (TONS)			32.0
RIVER	<u>.</u>	27939.5	21655.9	652.9	630.4	206.4	51280.9		134.6 899.5 13	423.6	907ENTIAL 6 51843-3	••
1151K: HURDY RIVER	350 674	140PLAND 27459+5	STOPLAND	343 S45 3	28 0PLAND 346 4	212FLAND 346 5	STOPLAND	/INETARDS	JASSLAND AVD PASTURE	J300LAM0	SIGNAT TOTAL POTENTIAL GROSS SIGNAS	JERCENT REDUCTIONS

LAME ERIE WASTEWATER NAMAGENENT STUDY
LAMB MANAGENENT ALTERNATIVES: BEST NAMAGENENT PRACTICE SCENARIOS

	SOIL MENT. GROUP LAND MARCA (ACRES)	0.00000 0.000000 0.0000000000000000000	101762.5 65629.4 60210.6	90193.9 30154.2 22776.2 3.2	13783.1 24925.5 6.0	24395.9 21498.1 19.8 1.1 1.5	B*B 5*655 +**555	6066.7 158.1 158.1 38.4 95.1	374970.3 177011.0 [			4554.1 (AFRES)
	TICHECE TILLAGE: CHISEL P (70NS)	1364	1017	106	137	2+3	•	9	374970.3			
FI BASIN	MAXIMUM REDUCTION TILLAGE (TOYS)	000351.1 46052.1 18041[.9	33917.7	93193.9	13783.1	24395.8	354.4	1889.3	I	IACRESI	(ACRES)	146465)
COUNTY: 62 ALL IN BASIM	30000		226353.6 5.4	86372.d 2.9	31286.8	23352.0	610.3	1+044-1		5115.1 (ACRES)	15886.4 (ACRES)	4595.1 (AFRES)
NOCO	FALL PLOMING ONLY (TONS) (TONS/ACRE)	338385.7 10.3	247406.2	94566.6	34283.3	25561.2	882.5	15515.4	756620.9 691010.1 4.3 5.9	JATER AREA ONLY	THER LAND JSE AREA	415SING DATE
*O*	<i>"</i> " " " " " " " " " " " " " " " " " "	506749.7	223196.6	85917.1	51110.7	23255.7	187.0	13912.3	664910.1	(TONS) JATER (ACRES) AREA (TONS/ACRE)	ACRE)	CRO
MILAV. 2M		145051.2	192931.9	81362.0 2.7	32649.6.	24586.7	838.0	474.4	477685.2	299.9 385.5 (.	713.4 (TONS) 9288.7(ACRES) • 06 (TONS)	3907.6 29118.6 .13
	EROSION (TONS) ACRE)	321034.2	233679.1	90195.9	32649.0	24595.6	9.00	14713.8	717495.0	299. 28. 3. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	713.4 9288.7	3907.5
BASIV: MURGH RIVER	_	STOPLAND	CROPLAND S96	STOPLAND 346 3	CROPLAND 546 4	STOPLAND STG 5	CROPLAND S46 8	CROPLAND S46 10	C10PLAND 717495.8	INEYARDS IND ORCH.	STASSLAND AND PASTURE	ONVIGCOF

LAKE ERIE MASTEMATER MANARENEN STUDY U.S. ARMY CORPS OF EIGENCERS. PUFFALD DISTRICT LAKO MANAGENENT ALTERNATIVES.: PEST MANAGENFT PRACTICE CETARIS

Color   Colo	JASIK: M	TASIK: MORNALK CREEK	144.404	WORVALK. OF	2000	CHUBITE ES SUPORS DAID	T. DHIO	ALL IN BASIN		
2 2771-1 2 10-76-1 2 3-93-5 3 3-93-5 3 3-3-5 3	LAND USE	. 5		SPR 146 PLON 145 5 JULY (1015)	PALL PLDJING JYLY (TOMS) CTOVS/ACCL)			######################################	591L 46MT. 613.1º LAVO 41E4 (ACRES)	CATSTRAG SOIL LOSS > T FACTO (ACRES) (TOWS/ACATS)
2 3.993.5 3 3.993.5 3 3.23.5 3 3.23.5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	12				2902.9	-I	7.060	1161.0	266.3	6.94
3 323.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CROPLAND	1076.1	3667.5	2.92	3.29.2	1351.2	1.641	1.13	359.9	895.8 5.0
323.5 5 1.2 1.2 5 5.7 5 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	SADPLAND 846	3.693.5	10 - 10 + 10 to 10	3980.1	1142.3	2.9 2.9	3998 3.8	3995.5	1334.4	
S	2		325.5	308.2	356.9	309.5	323.5		266.9	
00 13.2 0.00 13.2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	CROPLAND	8166.2	6452.6	7778.9	8553.9		1949.5		2224.0	
00 13.2 00 355.0 00 00 00 00 00 00 00 00 00 00 00 00 00	VINEVAROS And ORCH.				ign Ja omly	266.9 (	ACRESI			
101AL POTENTIAL ONO 6745.4	31ASSLAND 41D PASTUR		13.2 (1 35.848(	ACRE)	ER LAND	355.6	ACRESI			
	SOODLAND			TOWS) 4 15 CAES) CORS/ACRE)	SING DATA	177.9	ACRESI	•		
0.0 21.0 4.7 -4.7 4.3 40.5	SUBBARY TO	07AL POTENTIAL 8745.4 5.2		1.028¢	9157.4	3363.9	5198.0	6352.7	27.57.7	
	PERCENT RE		21.0	?			44.5	27.5		

LAKE ERIE WASTELATER HAMAGEPENT STUDY Land management alternatives : Rest management practice scenarius

34 S I M :	PERMILION RIVER		VERNILION, OB	<b>#</b> 000	COUNTY: 34 HUPON. DHID	ON. DHID			
TVMD CSE	EXISTING POT- GROSS EROSION (TOWS) (TOWS/ACRE)	POT.AEQUCE SOIL SPRING LOSS TO T PLOWIM AND EXISTING ONLY (TONS) (TONS)	N 6 20	# 7	UINTER CLVEK CROP (TONS)	MAKEMUM REDUCTION TICLAGE (10VS)	4-0-0	50 12 mems. 54000 LAVO 4454 (46755)	EASSING SOIL LOSS > T FACTOR (ACRES) (10MS/ACRE)
SY6	13PLAMD 90795.8 16 1 10.5	36073.9	86489.3 10.0	-	95102.3 96846.2 11.0 10.1	12560.7		9620.9	0628.9 16.5
STOPLAND	42324.8	.6 35010.0	40336.5	44331.4	404844 4.8	5655.1	17752.5 I.3	11653.5	11546.6
STOPLAND	95563.5	.5 89243.3	91030.7	100096-1	41408.6	95563.5 3.0	95563.5 3.3	51976.5	28852.0
CAOPLAND	9792.5	9192.5	9328.0	13257.0	3566. I 2.1	+1 42.6	4132.4 6.	+++7.3	
SHE	6421.6	6 6421.6	6117.0	6726.2	6142.4	1.1	6421.5	3584.5	0.0
I	AOPLAND 244897.4	118941-7	233281.5	256513.0		234249.7 124503.7 161861.4 62211.2 3.8 2.0 2.6	161861.0	62211.2	
VINEYARDS And orch.	9 9 9		0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	JATER AREA ONLY	1245.4 (ACRES)	(ACRES)			
34ASSLAVD And Pasture	127.1 RE 3024.6	302	A CRES	JTMER LAND JSE AREA	4625.6 (ACRES)	(ACRES)			
4330LAND	967.8 15834.5		967.8 (TONS) 934.5 (ACRES) •06 (TONS/ACRE)	4 ISSING DATA	1504.7 (ACRES)	(ACRES)			
314MARY 1		<u>~</u> ō	ON 238148.3	261753.7	1.581485	127619.9	165578.8	NOSS EROSION 182934-0 238148.3 261753.7 239132.1 127619.9 165578.8 82375.0 2.2 2.9 3.2 2.9 1.5 2.9	)
PERCENT R	PERCENT REDUCTION: 0.0	.0 26.8	1	1.4.	4.4	4 5.5	33.9		

LAKE ERIE WASTEWATER MAMAREWENT STURY - U.S. ARMY CORPS OF ENDIVEERS. BUFFALO DISTALCT LAND MAMAREMENT ALTERNATIVES: SIST MANAGEMENT PRACTICE SCEWARIOS

345IN: VERKI	VERKILION RIVER	LIMACIA	VERMILLION, ON	COUNTY:	TY: E7 EMIE. OHIO	• 0410			
380 071	EXISTING POT- GROSS EROSION (TONS) (TONS/ACRE)	•	MEDUCE SOIL SPRING. LOSS TO T PLOWING AND EVISTING ONLY TONS) (TONS/ACRE)		diate Cover Crop (Tous) (Tous)	WAXINUM PEDUCTION TILLAGE (TONS) (TONS/ACRE)	######################################	5316 MBM1. 343JP LA4D A4EA (464ES)	1025145 531L LOSS 5 1 FACTOR (ACRES) (1045,40RE)
1	5635.4		2369.9 5528.4	5942.3	5.594.2	5.594.2 725.6 7.5 3.0	i	)	7.7
STOPLAND SWG 2	588.7 1.8	586.9 1.8	556.7	620.9	553.5	75.6	242.3	326.2	**** ****
CROPLAND S4S	3901.4	3901.4	3688.9	4114.0	5734.4	39 61 . 4	3961.4	1640.3	
CROPLAND S46	453.2	453.2	428.5	417.3	433.8	186.9	185.4	316.3	60
CROPLAND S46 5	38.5	84.5	1.1	93.3 1.2	34.7	AB . S	1.1	1.67	• •
CROPLAND S45 10	3485.6	168.0	3220.1 65.2	3591.2	5259.9	4.37.5	1484.7	::	• • •
240PLAN0	14072.8	i	7587.9 13306.3	14939.5	13476.5	5418.9	9149.6	3153.1	
VIJEVARDS And orch.	54.7	54.7	(TONS) A (TONS/ACRE)	JATER ARÇA ONLY	116.6 (ACRES)	ACRES)			
SHASSLAND SHD PASTURE	147.5 1719.8	147.3 (TONS) 1719.0(ACRES) .09 (TONS)	ACRED	JTHER LAND JSE AREA	1018.1 (ACRES)	ACRES)			
JOODLAND	667.9 2382.1 .28		(TONS) 4 (ACRES) (TONS/ACRE)	415SING DATA	217.5 (ACRES)	ACRES)			
HMARY TOTAL	SJARARY TOTAL POTENTIAL 15586.4	H (B	14597.2	16175.9	14766.3	6,69.8	9266.5	A055 EA0510N 14597.2 16175.9 14766.3 6469.8 9286.5 7541.7 1709.0 1.2 1.9 2.1 2.0 .9 1.2	
PERCENT REDUCTION:	0.0	•3••	5.1	-5-1	•	58.0	39.6		

LAME ERIE MASTEMATER RAWAGERENT STUUT LAND MANAGEMENT ALTERNATIVES : RIST NANDZIMENT PRACTICE SCENARIUS

345 Ib.: VI	VERMILION RIVER	IIHEIA	VIZMILION, ON	100M	COUNTY: 14 RICHLAND, ONTO	LAMD. OHIO			
-140 USE	Extsting POT. GROSS EROSSON (TOMS) (TOMS)	÷	MEDUCF SOIL SPRING LOSS TO T PLUNING AND EYSTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	FALL PLOVING ONLY (TOES) (TOES)	HINTER COVER CROP (TONS)		TILLAGE: CHISFL PLOW FTOMS/ACTE)	SOL MEMF. SROUP LAND AREA (ACRES)	ER1511M6 \$31L LOSS > 7 FACTOR (ACRES)
C10PLAMD 346 1	6.844	3025.2		6.964.8 7150.5 5.05 7 8.6	0.8	1257.2	3536.9	4.00	9.60
CROPLAND S43	22513.3	15957.7	22258.7	24984.2	22513.3	4.592.A	12354.3	5426.4	5248.6
CROPLAND S46 3	3364.6	3368.6	3327.6	3758.4	3568.6	3368.6 1.9	3368 5 1 9	1779.2	00
STS TAND	562.3	5,62.3	555° 3°	624.6	562.3	3.808	3.00.5	3.69.	9 60
CAOPLAND 346 5	266.2	266.2	262.9	295.4	266.2	266.2	266.2	355.8	***
CADPLAND S46 10	1921.3	266.9	1897.3	2132.2	1921.3	374.9	1054.1	•••	23.6
SAUPLAND	TITITETETETETETETETETETETETETETETETETET	***	34647.4	24246.9 34647.4 38924.7 2.6 3.7 4.2	7	350/5,0 9968.3 3.6 1.1	20909.6	3.005€	[
VINEYARDS Avd orch.		0 · · · · · · · · · · · · · · · · · · ·	(TONS) JA (ACRES) AR (TONS/ACRE)	dater Area daly	•	0.0 (ACRES)			
JAASSLAND 440 pasture	30.00 80.00 90.00	2, 85 2, 85	ACPT	JTHER LAND JSF AREA	BBS.6 (ACRES)	ACRE S)			
GWY TOOOP	152.5		(TONS) 41 (ACRES) (TONS/ACRE)	4 ISSING DATA		89.0 (ACRES)		89.0 (ACRES)	
SJAMARY TO	SJAMARY TOTAL POTENTIAL SSS40.1	<b>~</b> (8)	35109.1	ROSS EROSION 35109.1 35420.6 24625.3 35109.1 3.5		10232.4	21240.2	11200.7	
*EACENT REDUCTION:	DUCTION:	30.7	1.2	-10.9	0.0	71.2	40.5		

LAKE ERIE WASTEVATER MANAGEMENT STUDY U.S. ARNY CORPS OF FNGIVEERS. RUFFALO DISTRICT Land management alternatives: Rest Management Practice Scenarios

THE REAL PROPERTY.

BASIN: VERMILION RIVER	ILLON RIVER	VERM	VERNILION, OH	<b>4</b> 002	COUNTY: 16 ASHLAND, ONIO	AND. OHIO			
350 084	EXISTING POT GROSS EROSION (TONS)	<b>-</b>		F 5		LOUSE REDUCED TILLAGE: COOF TILLAGE CHISEL P.JU (TOUS) (TOUS) (TOUS)	REDUCED TRLLAGE: CMISEL PLOM (TOMS)	\$511 MGMT. 3133 LAUD A1EG (ACEES)	FRISTING SSE LUSS > 7 FACTOR (1005/ACRE)
1-22PLAND 546 1	30PLAND 40958.5	19570.7	40162.4 R.4	=	47317.5 40933.5 47317.5 40933.5 9.9 8.5	11266-1	28165.2	4903.7	_
STOPLAND	39704.1	35437.5 2.8	34975.5 3.1	45896.4 3.5	39704.1	10927.7	27519.5	12632.0	
CROPLAND SWG 3	3438.0	3438.0	3374.9	3974.2	343A.0	3+36.0	54 515 a th	1957.1	
SAOPLAND S46	214.1	214.1	210.2	247.5	214.1	147.3	147.3	533.7	
CROPLAND S46	735.6	735.6	722.1	850.3 3.	735.6	735.6 5.	735.6 8.	1423.3	
340PLAND 346 10	16571.1 31.0	2046.0	16267.0	19155.6	16571.1	4560.8 8.0	11402.1	553.7	
1240PLAND 101596.4	101596.4	61441.9	99732.1	61441.9 99732.1 117441.6 2.6 4.6 5.4	101596.4 01075.5	31075.5	71207.5	21363.5	-
VINEYARDS AVO ORCH.	3 4 C	999	(TONS) 4:	JATER SREA ONLY	355.H (AC4ES)	469553			
SRASSLAND AND PASTURE	465.2 1423.3	405.2 (TONS) 1423.3(ACRES) .28 (TONS)	ACRE)	JTHER LAND JSE AREA	2046.0 (ACRES)	ACRES).			
0W V 1000 F	1480.5 5337.5		125 (1045) 4 125 (1085) 28 (1085/108)	4 ISSING DATA	2401.9 (ACRES)	ACRES)	•		
SJANARY TOTAL POTENTIAL 112159-3	112159.3 112159.3	1	110138.7	129333.2	112159.3	35725-1	79222.3	GROSS EROSION 68637-8 110138-7 129353-2 112159-3 35725-1 79222-3 31046-2 2-2 3-5 4-2 3-6 1-2 2-5	2
'ERLEN' REDUCTION:	0.0	36.6	1.	-15.3	3.6	68.1	23.4		

LAME ENIE WASTEWATER NAMAKEMENT STUDY U.S. AMMY CORPS OF ENGINERS. PUFFALG DISTRICT Land namagement alternatives : Mest management practice scenarios

34514: VEB	VERNILION RIVER	VERMIL	VERMILIÈN, OM	<b>₩</b> ∩CJ	COUNTY: 62 ALL IN BASTA	41 845 IV			
	EXISTING POT- GROSS EROSION (TONS)	•	SPRING PLOJING G ONLY (TONS)	£ 0	30000	MAKIMUM REDUCTION TILLAGE (TOVS) (TONS/ACRE)	REDUCED 11LLAGE: CMISEL PLOW 176AS) (TOWS/ACYE)	SOUP LAND GROUP LAND AVEA CACHESO	E485146 S316 LOSS > 7 F4CTOR (4CRES)
240PLAND 346 1	143867.9	- I	138364.7	155512.7	13461901	25637.6	72066.4	134619-1 25637-6 72066-4 14974-6	14964.7
:33PLAND SN6	125130.0	87392.5 2.9	102067.4	115932.9	103254.6	21251-2	57519.5	30036.1	16107.9
STOPLAND 3	106271.4	99951.4	101422.1	111922.6	101949.6	106271.4	106271.4	37253.6	28852.0
SAOPLAND 546	11022-1	11022.1	10522.1	11596.3	10576.9	4745.6	4743.5	6167.3	
CAOPLAND SMG 5	7511.9	7511.9	1165.7	7965.2 1-1	7228.9 1.0	1511.9	7511.3	7462.6	
240PLAM0 546 10	21898.0	2480.4	21365.0	24876.9	21752.2	5373.0	13961 • 1 20 • 5	572-1	572.1
CAOPLAND 395641.3	395641.3	272218.5 2.8 54.7 (1	380967.0 3.9 3.9 (10NS)	0.4	384391.3 173960.7 9.0 1.8 1719.9 (ACRES)	173960.7 173960.7 1.8 ACRES)	262105.3	9.500.5	
AND ORCH.	65.2		(ACRES) AR	AREA ONLY					
34ASSLAND 440 PASTURE	716.0 6523.6 •11	710.0 (TCAS) 6323.6 (ACKES) .11 (TONS)	ACRE3	JTHER LAND JSE AREA	8579.5 (ACRES)	ACRESI			
OND TOOOL	3268.7 24977.4 .13	326	7 ~	41SSING DATA	4015.0 (ACRES)	ACRESI			,
SLAMARY TOTAL POTE 4121 2ERCENT REDUCTION:	SJAMARY TOTAL POTENTIAL 912109-6 92100-6 9-1 9-1 9-1 9-1 9-0 9-0	6805S EROSION 284902.1 397055. 2.2 3.	397055.8	145271.2 3.4 -A.0	403567.3 3.0	189473.6	274472.3	445271.2 403587.3 189473.6 274472.3 132171.7 3.4 3.0 1.4 2.1 -A.0 2.H 56.2 33.4	

LAME ERIE WASTEWATER HAMAGEMENT STUDY U.S. ARMY CORPS OF EWGINEERS. AUFFALO DISTRICT Land Hawagement Alternatives : Rest Hawagiment Practice Scenarics

LYAIA, DW COUNTY SOIL SPRING FALL ST PLONING PLONING STRYG ONLY ONLY	COUNTY CO	COUNTY COUNTY COUNTY	TAUCS	- 700	T: GA HURDA, OHIO LINTER MAXIMU COVER REDUCT	W. DHIS MANINUM REDUCTION TILLAGE	TEUCED THEAGE: CHISTE PLON	•	521 LOSS 531 FACTOR
(TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (	(TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (	(TONS) (TONS/ACRE) (	(TOWS) (TOWS/ACRE) (	~ ~ ~	(TONS)	TONS) (TONS) (TONS) (ACATS) (ACATS) (TONS) (	(7345/AC12)	(10458)	(1045/4CRF)
7533.3	2312.9 6950.9 7533.3 3.2 9.6 10.6	7533.3	7533.3	-	6R79.2 9.7	994.9	3013.2		1011
6874.6 6489.4 6548.5 7200.6 2.9 2.7 3.0	6546.5 720	720	7200.6 3.0		6575.7	6874.6	6874.5	2401.9	622.7
346.3 347.3 351.4 364.7 2.0 2.0 1.9 2.1	331.4	98	364.4		333.1	1.45.9	145.9	177.9	
182.9 182.9 176.2 191.5 1.0 1.0 1.1	170.2		191.5		174.9	162.9	162.3	177.9	
	9333.5 13905.3 15289.9	1	1	<u>i</u> -	13962.9	A198.3	10216.5	+	
0.0 0.0 (TOWS) JATER 0.0 0.0 (ACRES) AREA DALY 6.00 1.96 (TOMS/ACRE)	0.0 (TONS) JATER D.D (ACRES) AREA ONLY 0.00 (TONS/ACRE)	ONS) JATER CRES) 1REA JNLY ONS/ACRE)	TER EA JNLY		0.0	0.0 (ACRES)			
32.4 32.4 (TONS) ) THER LAND 117.9 177.944CRES) JSE AREA .18 .16 (TONS/ACRE)	ACREJ	ACREJ	HER LAND E AREA		266.9 (ACRES)	ACRES)			
622.7 622.7 (ACRES) 41551NG DATA 622.7 622.7 (ACRES) 61 62.7 (TOMS/ACRE)	44.6 (TONS) 41SSING DATA 622.7 (ACRES) .07 (TONS/4CRE)	ONS) 415SING DATA (CRES) ONS/ACRE)	SSING DATA		0.0	0.0 (AC4ES)			9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MITAL GROSS ERUSIUM 74-7 9410-5 13902-3 15366-9 3-4 2-2 3-5 5-6	GROSS EROSINA 13902.3 15366.9 1-9410.5 3.6 3.5 5.6 9.6	11 11 11 11 11 11 11 11 11 11 11 11 11	11	-	1403949	8275.3	10293.5	9.0424	
THE REPORT LOSS 6-7 -4-7 -4-7	1.1		-4.7		•••	43.6	29.3		

LANE ERIE WASTEWATER MANAFERLNT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTAICT LAND MANASEMENT ALTERNATIVES: BEST MANASEMENT PRACTICE SCENARIUS N: BLACK RIVER ELYRIA, OM COUNTY: 16 ASMLAND, OMIO

	SOUP LAND SABUP LAND AREA (ACKES)		5 4892.7 555.7	2 1957-1 0.0	0.80 50	.3 355.8 0.0	3 3162.7			(TONS) "ISSING DATA 1690.< (ACRES) (ACRES) (TONS/ACRE)	
	* = () = = .	1160.9	10287.5	4368.6	20.5	191.3	22021.3				25537.7
LAMD . 0H10	E #	2865.9 1.5	4.215.0 A.	4360.6	20.6	191.3	11553.4	266.5 (ACRES)	711.7 (ACRES)	(ACRES)	13592.5
COUNTY: 16 ASHLAND, DHIO	* 0 11	10412.9	14951.2	4360.E	30.0	191.5	23946.0	266.5	7111.7	1690.2 (ACRES)	3+573.7
#nc)	FALL PLOVING 3 VL T (TONS) (TONS/ACRE)	12036.9	17283.6 3.5	5040.7	34.6	221.2	34616.4	JATER AREA ONLY	JTHER LAND JSE AREA	ISSING DATA	39931.4
. 0.	SPRING PLOJING 3 JULY (TONS) (TONS/ACRE)	5337.5 10221.8 2.9 5.5	14676.8 3.0	4280.6	29.4	187.8	29396.4 3.2	0.0 (TONS) JA 0.0 (ACRES) AR U.00 (TONS/ACRE)	ACRES	19.4 (TONS) 41: 23.9 (ACRES) -15 (TONS/ACRE)	33946.7 2.5
ELYRIA, OM	AEDUCE SOIL SPRING AUD EXISTING JALY (TONS) (TONS)	•	14196.0	4360.6	30.0 8.0	191.5	24115.4	0000	37.7 (TONS) 622.7(ACRES) .06 (TONS)	324.4 2223.9	27922.5
IK RIVER	EAISTING POT. GROSS EROSION (TOMS) ATOMS/ACRE)	ADPLAND 10412.9	14951.2	4368.6	0.00 0.00	191.3	-1	8 0 0 9 0 0	37.7 622.7	324.4	I
SASIN: BLACK RIVER	. AND USE	CROPLAND 346 1	CROPLAND 346 2	CROPLAND SHE	310PLAND	CROPLAND S46 5	STOPLAND	JIVEYARDS AND ORCH.	SAASSLAND AND PASTURE	JODEAND	SUMMARY TOTA

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PEST WANAGEMENT PRACTICE SCENARIOS

3451N: BLA	BLACK RIVER	ELVA	ELV41A. OH	N000	COUNTY: 17 MENINA. JHIO	144. JH10			
. NVD USE	ENISTING POUR SROSS EROSION (TONS)	<b>:</b>	PLONING NG DNLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER COOP (TONS)		TELLAGE: CMISEL PLO (TOMS)	SOL MENT. SADUP LAND AMEN (ACRES)	ERISTING \$316 L038 > 1 FACTOR (ACRES)
CROPLAND		7	39974.3	19243.4 39974.3 45684.9 4115.4 3.3 5.8 7.8 7.0	41116.4	**************************************	21010.3	5958.7	5855.7
340PLAND SMG 2	27485.2	22371.9 2.8	25999.6	29713.9	26742.4	5194.9	13925.5	7945.5	9 * 0 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 +
240PLAND 546 3	44638.1	44638.1	42225.2	48257.4	43431.6	44638.1	44639.1	16724.1	9 6
340PLAND 4	8. 8.	0 °	463.4	529.5 5.	476.6	2.8.2	248.2	5.8.6	<b>6</b> 0
S4G S4G	5.58 5.	952,3 6	900¢	1029.5	956.6	952.3	952.3	1607.	
CROPLAND S46 10	3298.6 71.9	137.8 3.0	3120.3	3566.1	3239.5 69.9	624.1	1671.6	.5.3	45.4
CROPLAND 119122.5	119122.5	87833.3 2.7	87833.3 112683.6 2.7 3.4	128781.2	115903.1	59657.4	-1	7-000000	
VINEVAROS And orch.	000	0.00	0.0 (TONS) d. 0.0 (ACRES) 1: .00 (TONS/ACRE)	JATER Trea duly	160.7 (ACRES)	(ACRES)			
STASSLAND AND PASTURE	1468.2 15132.9	1468.2 (TONS) 15132.9(ACRES) .10 (TONS)	ACRED	JTHER LAND JSE AREA	3398.6 (ACRES)	(ACRES)			
JOOF AND	1971.3	1971.3 (70NS) 11343.9 (ACRES	(TONS) 4 (ACRES) (TONS/ACRE)	ISSING DATA	_	( ACRES)			
SJAMARY TOTAL POTENTIAL 135812-0 2-1 2ERCENT REDUCTION:	SJMMARY TOTAL POTENTIAL 195A12.0 2.1 PERCENT REDUCTION: 0.0	GROSS EROSION 101140.2 12A677.0 1.5 2.0 25.5 5.3	12n677.0	146514.9	132244.6	2294.6 69918.2 95621.8 2.0 1.1 1.3 2.6 48.5 29.5	•	65905.0	

LAKE ERIE HASTEMATER MANAGEMENT STUDY Land Management alternatives : best management practice scenarius

SACIN: MACK RIVER	K RIVER	ELTAIA, OM	A. 0H	NOCU	COUNTY: 18 CUYANDSA, OHIO	034, 0410			
LAND USE	EXISTING POT- GROSS EROSION (TONS)		SPRING PLOWING G ONLY (73NS)	REDUCE SOIL SPRING FALL JINTER MAXIMUM GEOUCE) LOSS TO T PLOMING PLOWING COVER REDUCTION ILLAGE: AND EXISTING ONLY CROP TILLAGE CHISEL PLOW AND EXISTING ONLY (TONS) (TONS) (TONS) AND EXISTING ONLY (TONS) (TONS)	JINTER COVER CRQP (TDNS) (TONS/ACKE)	MAKIMUM REDUCTION TILLAGE (TONS)	REDUCE) TILLAGE: CMISEL PLOW (TONS) (TONS/ACRE)	SOIL MENT. STOUP LAVO AREA (ACTES)	E41511N6 531L LOSS > 1 FACTOR (ACRES) (TOMS/ACRE)
1	13PLAND 60.6		66.6 67.5 78.0	78.0	67.1	1001	6.9.1 1.0	67.1 68.5 68.5 1.0 1.0	00
SASPLAND	32PLAND 68.6		-1	78.0	67.1	1.0	6.5.5	68.6 67.6 78.0 67.1 68.6 64.5 58.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	
VINEY ARDS	•••	2000 0000	0.6 (TONS) JA 0.0 (ACRES) CA 0.00 (TONS/ACRE)	JATER VREA ONLY	9 0 0	D.O (ACRES)			
32ASSLAND AND PASTURE		0.00	0.0 (T34S) 31 0.0(ACRES) 15 0.00 (T3MS/ACRE)	JTHER LAND JSE AREA	45.5 (ACRES)	ACRESI			
400DLAND	3.6 160.7	5.6 (TONS) 160.7 (ACRES) 003 (TONS/A	5.6 (TONS) 4 0.7 (ACRES) .03 (TONS/ACRE)	4 ISSING DATA	0.0	0.0 (ACRES)		5.6 (TONS) 4155IMG DATA 0.0 (ACRES) 160.7 (ACRES) .03 (TONS/ACRE)	[
SJAMARY TOT!	SJAMARY TOTAL POTENTIAL 74.2	GROSS EROSION	73.2	83.6	72.7	74.2		229.5	
PERCENT REDUCTION:	-	0.0	1.3	-12.7	2.0	0.0	0.0		

LAME ERIE UASTENATER MAMAGEMENT STUDY U.S. ARPY CORPS OF ENGINEERS. RUFFALO DISTRICT Land Mamagement alternatives: Best Managiment Practice Scenarics

BLACK RIVER ELVRIA. OF	ELVRIA	ď	5	M000	COUNTY: 51 LOPAIN, OMIO	11N+ OH 10	;		;
T. REDUCE SOIL S LOSS TO T P AND EXISTING (TONS)	<b>:</b>	SPRING PLOUING COUING (TONS)	5		FALL UINTER DOUR CR3P 17185 (100S) (100S/AC4E) (100S/ACPE)	MAXINUM AEDUCTION TILLAGE (TONS)	MEDUCED TILLAGE: CMISEL P.Jd (TONS) (TONS/ACME)	FALL VINTER MAXIFUM REDUCED SOIL METT.  LOUING COVER REDUCTION TILLAGE: 3430P LAYO  TILLAGE CHISCL P.34 ATE  TONS (TONS) (TONS) (TONS) (ACRES)  TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	E4181146 S314 LOSS > 7 FACTOR (ACRES)
1372AND 500A955 18576.4 476.9.5				53906.5	49272-8	8439.0	25569.2	1.9919	5511.2
8604.5 8684.5 A1B3.6	£1 &	A183.		9259.2	1.1	F + 9 + 1	4395.8	2086.0	
115349.6 115349.6 109707.5 1.9 1.9		109707.5 1.A		124126.2	113456.9	115349.6	115349.6	59613.0	• •
3243.5 3243.5 3084.9 1.1 1.1 1.0		3084.9		3490.3	3190.4	1657.0	1657.0	3031.2	
2169.8 2169.8 2063.7 .8 .8	206.1	2063.7		2334.9	2134.4	2169.8	2169.9	2524.5	•••
44054.9 918.5 41900.0 95.9 2.0 91.2		41900.0		47406.9	43336.6	1422.5	22506.3	454.5	N.484 P.28
1.3PLANO 223511.6 140862.3 212579.2 240518.1 2.7 2.0 3.1	19862.3 212579.2 1-9 2.7	212579.2	i	240518.1	219867.5 2.19867.5	136487.4 171667.7 1-8 2.2	171667.7	77900-1	
14.0 74.0 (TONS) JA 114.8 114.8 (ACRES) 48 .64 (TONS/ACRE)	CRES	CRES	- C	JATER AREA ONLY	757.8 (ACRES)	ACRESS			
2388.0 23P8.0 (TONS) 2 25213.8 25213.P(ACRES) J .09 (TONS/ACRE)	ACRE)	ACRE)		JTHER LAND JSE AREA	8266.8 (ACRES)	ACRESS			
		FONS) 41	_	41SSING DATA	271R8.7 (ACRES)	IACRES)			0 0 0 0 0 0 0 0 0 0
SJMMARY TOTAL POTENTIAL GROSS FRASION 2 267030.3 300912.4 275969.0 174752.2 217416.1 155003.1 25505.1 1.9 1.8 1.8 1.8 1.9 1.8 1.8 1.8 1.9 1.8 1.8 1.8 1.9 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	<b>~</b> •	267030.3	1	\$60912.4 1.9	275869.0	174752.2	217016.1	155003.1	
32° 3 4°7		**		-7.	1.6	37.7	23.1		

LAKE ERIE WASTEWAYER MAMAGEMENT STUDY
LAND MAMAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

SESTN: BLA	BLACK RIVER	ELVRIA. OM		COUNTY:	T: 62 ALL IN BASIN	N 845 W			
	EXISTING POT- GROSS EROSION (TONS)	EDUCE SOIL OSS TO T ND EXISTING TONS)	SPRING PLOUING ONLY (TONS)	r	LINTER COVER CROP (TONS) (TONS/ACRF)	I	REDUCED TILLAGE: CMISEL PLOU (TONS) (TONS/ACTE)	SOIL MENT. SAOJP LAND AREA (ACAES)	E41511N6 521L LOSS > T FACTOR (ACRES) (1045/ACRE)
-	10PLAND 109952.7	-1	104686.2	119155.4	107681.2	20294.7	57162.0 5.7	'n	13996.1
~	51040.9	45172.3	48860.0	56256.0	50157.8 2.8	10764.6	28611.6	1784.1	7078.3
m	171291.4	170906.2	162829.4	184702.9	167903.9	171291.4	171291.1	6.964.9	622.7
•	4111.6	4111.6	3909.4	4419.3	4030.4	2071.8	2071.8	3918.1	
SAOPLAND	3496.	3496.3	3326.5	3777.1	3427.2	3496.3	3496.3	4365.7	00
CLOPLAND SHG 10	47353.5	1056.3	45020.3 89.1	50972.9 100.9	46546.0	8046.3 15.9	24177.9	505.2	505.2
SESPLAND	1.13PLAND 387246.4	270212.8	368631.9	419283.6 3.4	379746.5 3.19746.5	215965.1	286831.0	123499.5	
JINEYARDS AVD ORCH.	114.8	74.0 (T 314.8 (A T) 64.	(TONS) JA (ACRES) (ACI	JATÉR AREA ONLY	1185.4 (ACRES)	ACRES)			
318SSLAND Ayd pasture	3918.4 41147.3	3918.4 (TONS) 41147.3(ACRES) .10 (TONS/	ACREJ	JTHER LAND JSE AREA	12689.9 (ACRES)	(CRES)			
4330LAND	7564.0 39037.0		7.0 (4CRES) -17 (TONS/ACRE)	4ISSING DATA	44654.7 (ACRES)	ICRES >			
101			463418.5	525169.0	476958.9	277301.0	363694.5	055 EROSION 055 EROSION 0545455.1 463418.5 525169.0 476958.9 277301.0 363694.5 248453.3 144 1.9 2.1 1.9 2.1 1.9 2.3	
7	0.0	29.4		0.8-	1.9	43.0	25.2		

LAKE CRIE MASTEMATIER MANAGEMENT STUDY LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCEMARIES

	E4151146 531L LOSS > 7 F4CTOR (4CRES) (1045/ACRE)			• • •	•••						
BASIU	531L 464T. 343JP LAND 44EA (ACTES)	114.4	398A.2	1.60.7	6.4	3352.5				1055 EROSION 6411.7 7257.2 4627.1 6488.8 6985.2 7555.8 6734.9 .9 .9 .9	
ALL TH BA	REDUCES TILLAGE: CMISEL PLOW (TOMS)		471A.5	86.5	12.1	4912.5				6545.2	5.3
51 LOPAIN. OHIO	MARIMUM RECUCTION TILLAGE (TONS) (TONS/ACRE)	21.6	+71A.3	86.5	42.1	4868.5	0.0 (40455)	ACRES)	ICRESI	•••	3.7
TY: 51 LOPA	Fall diver Plobins Cover 2042 crop (100s) (100s) (100s/ACAF)	125.9	4641.3	166.5	•••	4975.1	0.0	1171.1 (ACRES)	1768.2 (ACRES)	4627.1	1.6
COUNTY	PLOWING DALY (TONS) (TONS/ACRF)	157.7	5677.3	142.1	5.3	5442.4	JATER Area only	JTHER LAVD JSE AREA	41SSING DATA	7237.2	-7.5
OPERLIN. UM	MEDUCE SOIL SPRING LOSS TO T PLOMING AND EFISTING (NLY (TONS) (TONS/ACRE) (100/S/ACRE)	128.0 121.7 1.1 1.1	4487.5 1.5	160.9	0.0	4810.1	CRED	ACRE)	13.1 (TONS) 41S 18.9 (ACRES) .05 (TONS/ACRE)	6411.7 .A	•
DPEAL	GROSS LOSS TO T PLOULY GROSS LOSS TO T PLOULY GROSIOW AND EFISTING ONLY (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	<u> </u>	4738.3 1.6	169.2	42.1	5057.6	15.5 (TONS) 23.0 (ACRES) .67 (TONS/A	54.4 (TONS) 1722.3(ACRES) .03 (TONS/			
PLUM CREEK	GROSS GROSS EROSION (TONS)	129.0	4 713 . 3 1.6	169.2	42.1 .6		13.5 23.6 67	54.4 1722.5 .03	31.1 688.9 .85	SURBARY TOTAL POTENTIAL G	0.10W:
BASTK: PLUM	. 145 USE	STOPLAND 2	CAOPLAND S46 3	SAS 4	CHOPLAND 346 5	1	JINEYARDS And Orch.	324SSLAND 443 PASTURE	4300LAM0	SUMMARY TOTAL	PETERT MEDUCTIONS

LAKE ERIE JASTEJATER HANAGENEWI STUDY U.S. ARMY CORFS OF ENGINEERS. BUFFALO DISTRICT Land Hanagenewi Alternatives : Best Makaginemt Practice Scenarios

BASIN: NEFF RUN		. LITCHF	LITCHFIELD, ON	CAUR	COUNTY: 17 MEDINA+ OHIS	NA. 0H53			
TAND USE	EXISTING POT- GAOSS EROSION ITONS) CTONS/ACRES	LOSS TO T PLONIM LOSS TO T PLONIM AND EXISTING ONLY (TONS) (TONS)	SPRING PLOUING 6 ONLY (TONS)	NEDUCE SOIL SPRING FALL LINTER MAXIMUM REDUCED LOSS TO T PLONING PLONING COVER REDUCTION TILLAGE: AND EXISTING ONLY CROP TILLAGE CHISEL PLON (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) CTONS/ACRE) (TONS/ACRE) (TONS/ACRE)	WINTER COVER CROP (TONS)	MAXINUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOM (TOMS)	SOLL MENT. 6100° LAVD AREA (4CRES)	EXISTING \$21L LOSS > 7 FACTOR (ACRES) (TOMS/ACRE)
1	6.66 8.4		1.4	15.9 94.5 107.9 97.2 18.9	97.2	0 · 97		545 545 845	23.0
CROPLAND S46 3	1029.8	1029.8	974.2	1113.3	1002.0	1029.8	1023.3	0.4.9	0.0
CROPLAND	ROPLAND 1129.7	-	1068.7	1221.2	1099.2	1046.7	1080.1	075.7 1068.7 1221.2 1099.2 1046.7 1080.4 666.0 1.6 1.6 1.5	
VINEYARDS AVD ORCH.	0 a d	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	) ACRE)	dater 1rea only	9.0	0.0 (ACRES)			
STASSLAND And pasture	275.6	13.8 (TONS) 275.6(ACRES) .05 (TONS)	ACRE)	JIMEN LAND JSE AREA	0.0	0.0 (ACRES)			
JODELAND	36.9 298.5 .12		16.9 (TONS) 1]: 18.5 (ACRES) 12 (TONS/ACRE)	41SSING DATA	00.0	0.0 (ACRES)			
SJAMARY TOT	Elitation (Control of Control of	1 22	1119.4	1271.9	1149.9	1699.4	1131.1	055 EROSION 1119.4 1271.9 1699.4 1131.1 1248.1 126.1 .9 .9 .9 .9 .9	
PERCENT REDUCTION:		9:0	5.2	- 7. 6	2.6	6.9	7.5		

LAKE ERIE MASTEMATER MANAREMENT STUDY U.S. ARMY CORPS OF ENGINEEPS. BUFFALO DISTRICT Land wanagement alternatives : rest manarement practice scewarius

BASIN: WEFF RUN	F RUN	רונא	LITCHFIELD. CH	COUN	COUNTY: 51 LORAIN. OHIO	1% OH10			
350 085	ERISTING POT-		PEDUCE SOIL SPRING FALL WINTER MAXIMUMOSS TO T PLOWING PLOWING COVER REDUCTION TILLAGE TIONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	MINTER COVER (ROVE) (TONS)	MAXIAUM REDUCTION TILLAGE (TOYS) (TONS/ACRE)		501L M647. 610JP LAND 41EA (4C1ES)	E4187146 \$31L LOSS > 7 F4CT3R (A2RES) (TOWS/ACRE)
3.46 1	729.3	275.6		693.7 784.8 6.9	717.4	122.9		372.5 114.9	6.91.
CROPLAND 346 3	2956.4 2.6	2956.4	2#11.A	31#1.3 2.8	2408.2	2956.4	2956.4	1148.2	6.0
1		i	3505.5	3966.1	3625.6	3079.3	3329.3	232.0 3505.5 3966.1 3625.6 3079.3 3529.1 1263.1 2.6 2.9 2.9 2.9	
VINEYARDS Avd orch.		0.00	G.O (TONS) JAI O.O (ACRES) ARE O.OO (7DVS/ACRE)	JATER AREA ONLY	0.0	0.0 (ACRES)			
348SLAYD And Pasture	121.0	121.0 (1345) 505.2(ACRES) .24 (TONS/	ACR E)	JTHER LAVO JSE AREA	000	0.0 (ACRES)			
JOOFFAND	335.9 734.8	266.2 (TONS) 734.8 (ACRES) .36 (TONS/A	415 4.8 (ACRES) -36 (TONS/ACRE)	41SSING DATA	275.6 (ACRES)	ACRES)			
MARY TOT	SJMMARY TOTAL POTENTIAL GROSS ENSION 4598.7 4095.1	68055 EROSIO 4095.1	N 4398.7	4910.0	*532.0 1.6	3925.6	4292.8	OSS EROSION 4590.0 4532.0 3925.6 4282.8 2778.5 4095.1 1.5 1.6 1.4 1.5	
FRCENT REDUCTION:	0.110%:	11.0	4.3		1.5	1.6	3.5		

LAKE ERIE WASTEWATER MAMAGEMENT STUDY U.S. ARRY CORPS OF ENGINEERS, BUFFALD DISTRICT Land Ramagement Alternatives : Best Maragement practice scenarios

	JASIN: MEFF RUB	L1 1CM	LITCAFIELD. ON	MNO)	COUNTY: 62 ALL IN BASIN	NI SYS NI			
25555	EXISTING POT-R GROSS L EROSION A (TONS) (	-REDUCE SOIL SPRING LOSS TO T PLOUIT AND EXISTING ONLY (TONS) (TONS) (TONS)	EDUCE SOIL SPAING FALL MINTER MAXIMUM REDUCED OSS TO T PLOWING PLOWING COVER REDUCTION FILLAGE: ONLY CROPP TILLAGE CHISTL PLOW TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS)	FALL PLOWING ONLY (FONS)	UINTER COVER CROP (TONS)	MAXIMUM REDUCTION FILLAGE (TONS)		SOIL MEMT. Stoup Land Area (Acres)	E4151346 S31L LOSS > 7 FACTOR (ACRES) (TONS/ACRE)
10PLAND	129.2	829.2 321.5 788.1 892.4 6.8 2.3 5.7 6.5	788-1	89 90 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		0 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	426.2	6.461	137.6
	3986.2	3986.2	3785.9 2.1	4294.7 2.4	3910.2	3986.2	5985.2	1791.2	9 # 5 Ø
÷	1815.4	4301.7	4574.0	5187.5	4124.6	4128.0	4489.4		[ • • • • • • • • • • • • • • • • • • •
	0 0 0 • • • •	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	ACRES	AATER AREA ONLY	3 3 0	0.6 (ACRES)			
	134.6 768.8	134.8 (TONS) 788.8(ACRES) 17 (TONS)	ACRES	JTHER LAND JSE AREA	0.0	0.0 (ACRES)			
	372.7 1833.4 .36	303.1 (TONS) 1033.3 (ACRES) .29 (TONS/A	3.3 (TONS) 415 3.3 (ACRES) .29 (TONS/ACRE)	41SSING DATA	275.6 (ACRES)	NCRES)		303.1 (TONS) 41SSING DATA 275.6 (ACRES) 1033.3 (ACRES) .29 (Tons/Acre)	
ن بر∸	JANARY TOTAL POTENTIAL GR	SJAMARY TOTAL POTENTIAL GROSS FROSION 5784-8 5169.7 5.4	N 5455.6	6114.3	5617.5	4976.8	5278.9	4018.8	
5	SERCENT REDUCTION:	3.6	4.5	-7.0	1.1	12.9	7.6		

LAME ENIE WASTEWATER MANAGERFUT STUDY U.S. ARPY CORPS OF ENGINEERS, RUFFALO DISTRICT Land Ranagement alternatives : Lest Ranachement Practice Scevarios

6190		33246.2 A5964.6 97216.7 B7445.1 17012.9 65570.4 10930.5 10379.5 3.6 4.2 1.6 4.2	1574.7 4218.0 3054.1 229.6 .5 1.1 3.0	432A2.3 43282.3 16625.5 9.0 2.6 2.5 7.0	44.0 44.0 91.9 0.0 .5 .5 9.0	1315.9 1315.9 1937.1 6.0.0 .7 7.	6755.9 18090.7 456.5 456.5 15.5 11.8	69983.7 112521.3 32975.5 2.1 3.4	(5)	. (5)	(5)
TY: 17 MEDINA. OHIO	LINES AND STORES STORES STORES	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	8098.5 2.1	42112.5 2.5	80 • • • •	1246.5	34734.2	193116.9 173805.1 69983.7 5.9 5.3 2.1	528.2 (ACRES)	12721.7 (ACRES)	8243.9 (ACRES)
\$4.800.00	FALL PLOUS ACRED (TOUS ACRE)	97215.7	8998. 4 2. 3	46791.7	93.9	1422.6	48593.6 88.5	193116.9	JATER SREA ONLY	JTHER LAVD JSE AREA	4 ISSING DATA
•	EDUCE SOLL SPRING OSS TO T PLOWING MDD EXSTING UNLY TONS.	8 * #968d	7473.5	41942.7	82.2	1244.8	33769.4	168977.3 158977.3	(ACRES) JATER (ACRES) AREA (TONS/ACRE)	PCR!	G S
NO *83436			8313.1	43282.3	6.98	1315.9	3.3	01670.7	5 0 D	5769.3 (1345) 32929.6(ACRES) .18 (1345.	8495.4 (10MS) 18218.0 (ACRES)
		89925.5	8123.5	43282.3 2.6	•	1315.9	39699.0	176633.1	• • •	5769-3 32929-6 -18	18218.4
34514: ROCKY		1	243PLAND 546 2	SHOPLAND 3	243PLAND	24 0PLAND 346 5	346 10 546 10		FIREYARDS ALD ORCH.	JAASSLAND AND PASTURE	VOODLAND

LAKE ERIE MASTEMATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT Land Management alternatives: best management practice scenarios

3451M: ROCKY	K	BEREA. OH	¥0.	MUCC	COUNTY: 18 CUVAHOSA, OMIO	133A. 0H10			
TAND USE	EXISTING POT. GROSS EROSION (TONS) (TONS/ACRE)	AEDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TOUS)	SPAING PLOWING B ONLY (TONS) (TONS/ACRE)	FALL PLONING ONLY (TONS)	E INTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)ACRE)	REDUCED TILLAGE: CMISEL PLOW (TOMS)	EDUCED SOIL MENT. ILLAGE: 610JP LAND HISEL PLOW AREA TOWS) (4CRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES) (TOWS/ACRE)
TAOPLAND S46 1	1395.7		1375.5	1587.8	294.0 1375.5 1587.8 1365.3 212.4 3,2 15.0 17.3 14.9 2.3	212.4	1.18	6.19	6.9.9
340PLAND S46	894.9	894.9 1.4	2.4	1018.1	875-5	136.2	0 · 1 · ·	\$20.0	
SAOPLAND 345	2231.1	2231.1	2198.8	2538.3	2182.6	2231.1	2231.1		••
SOPLAND	1	•	4456.2	5144.2	3420.0 4456.2 5144.2 4423.4 2579.7 3359.9 1.3 1.7 2.0 1.7 1.0 1.9	2574.7	3359.9	2571.9	
JI VEYARDS And orch.	5 G G	0.0 (TONS) 0.0 (ACRES 0.00 (TONS/	ACRES	JATER ARFA ONLY	91.9 (ACRES)	ICRESI			
STASSLAND AND PASTURE	458.1 3169.0	158.1 (TONS) 3169.0(ACRES) .14 (TONS)	ACRE)	JTHER LAND JSE AREA	5901.6 (ACRES)	ACRES)			
4000LAND	1559.5 5281.6 .30	1559.5 (TONS) 5281.6 (ACRES)	19.5 (TONS) #15 11.6 (ACRES)	#15SING DATA	26798.3 (ACRES)	ACRESI	• • • • • • • • • • • • • • • • • • •	1559.5 (TONS) #1551NG DATA 26798.1 (ACRES) 5281.6 (ACRES) 530 (TONS/ACRE)	1 1 1 1 1 1 1 1
SJAMARY TOT	SJNMAKY TOTAL POTENTIAL GROSS EROSION 22437.9 18657.7	6ROSS FROSION 18657.7	22213.1	24573.8	22100.6	15776.1	14451.1	37820.8	
PERCENT REDUCTIONS	0.0	16.8	0 · t	-9.5	1.5	29.7	17.3		

LAKE KRIE WASTEMATER MANGEFENT STÜDV U.S. ARNY CORPS OF ENGINEERS. RUFFALO DISTRICT LAND MANGEFENT ALTERNATIVES : PEST \*\*PNAS; WENTILE SCENATIOS

9ASIN: ROCKY	K	BEREA. OF	10.	COUNT	COUNTY: 19 SUMMIT. CHIO	11. CH 10			
. A4D USE	AND USE EXISTING POT SROSS EROSION (104S)	_ ,	REDUCE SOIL SPRING FALL WINTER WAXIMUM RECOUCED LOSS TO T PLONING PLONING COVER REDUCTION TILLAGE: AND EXISTING ONLY SALY CROP TILLAGE CHISEL P.34 (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS)  LOSS TO TOWS (TOWS) (TOWS/ACRE) (TOWS/ACRE) (TOWS/ACRE)	PLOUING JALY (TOPS) (TOMS/ACAE)	Elutea COVER CROP (TONS)	### 1#UM #EDUCTION TICLAGE (TONS / ACRE)	TILLAGE: 313J# CHISEL P.34 A1EA TINES P.34 A1EA TINES (ACVE)	LOSS TO T PLONING FALL WINTER WAXIMUM REDUCED SOIL MEM?. LOSS TO T PLONING PLONING COVER REDUCTION TILLAGE: 343JF LA40 AND EVISTING ONLY 34LY CR3P TILLAGE CMISEL 2.34 A4EA (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS)  [TOMS/ACPE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE)	E41511M6 53 E LOSS 5 T FACTOR ( ACRES) ( TOR( S.)
ROPLAND	ROPLAND 0.0		0.0	0.0	0.0	0.0	9.9		1
FINEYARDS AND ORCH.	9 6 9	0.0 (10%S) 0.0 (ACATS) 0.00 (10%S)	) ACRE)	JATER 19 <u>e</u> a july	0.0 (ACRESI	ACRESI			
STASSLAND AVD PASTURE	343.2 1699.3	343.2 (TONS) 1699.3(ACRES) .20 (TONS)	4CRE)	JTHER LAND JSE AREA	160.7 (ACRES)	ACRESI			
4300L4M0	574.5 1492.6	514.0 (TOVS) 1492.6 (ACRES) .34 (TONS/A	14.0 (TONS) 415 72.6 (ACRES) .34 (TONS/ACRE)	41SSING DATA	206.7 (ACRES)	ACRESI	•	•	
SUMMANY TOTAL POTENTIAL 977.1	UNMARY TOTAL POTENTIAL 977.1		N 977.1	977.1	977.1	1,446	977.1	GROSS FROSION 977:1 977:1 977:1 3598-5 .3 .3 .3 .3 .3 .3	
PERCENT REDUCTION:	UCTION:	0.0	0.0	0.0	•	0.0	0.0		

LAKE ERIE MASTENATER MANAGEMENT STUDY Land management alternatives: Best Management practice scenarius

SASIN: ROCKY	:KY	BEREA. OM	, Q4	₩ <b>n</b> oo	COUNTY: 51 LORAIN, OHIO	01H0 +N1			
. AND USE	EXISTING POT- GROSS ENOSION (TONS) (TONS/ACRE)	AEDUCE SOIL LOSS TO T AND EXISTING (TONS) (TONS/ACRE)	SPRING PLONING OULY (TOMS) (TONS/ACRE		dinter Cover Crop (Toks)	MAXIMUM REDUCTION TILLAGE (TOUS)		5316 MGMT. 6403P LAVO 4484 (46455)	E41511M6 5311 .055 57 F4CTOR (ACRES) (10MS/ACRE)
240PLAMD 343 1	4722.2	1896.3	4491.2	5	6.0 6.0	5081.5 1645.2 795.6 2412.4 6.5 5.9 1.0 3.1		760.9	6.6
CROPLAND S46 2	709.2	6.88.8 1.5	674.5	163.2	697.6	119.5	362.3	5-86-5	23.0
SAGPLAND 343	1973.3	7973.3	7563.3	0.0858 1.1	1843.3	1973.5	1973.3	5166.8	•••
CROPLAND S46	158.4	158.4	150.7	170.5	155.9	80.9	80.3 è.	137.6	
CROPLAND 346 5	111.3	111.3	105.6	119.8	109.5	111.3	111.3	160.7	00
1	1	10828.1	13005.5	14715.0	13451.5	9080.6	9080.6 10940.2 1.3 1.6	6774.3	
JINEYARDS AND ORCH.	138.9 168.7 .86	138.9 (1 160.7 (1 15 66 (1	(TONS) 4 (ACRES) A (TONS/ACRE)	dater Area only	137.8	137.8 (ACRES)			
SRASSLAND And Pasture	139.9 1343.0	139.9 (TONS) 3743.0(ACRES) .04 (TONS)	ACRE?	JTHER LAND JSE AREA	1653.4 (ACRES)	IACRES)			
433bland	166.1 3513.4 .05		6.1 (TONS) 1 3.4 (ACRES) .05 (TONS/ACRE)	41SSING DATA	367.4 (ACRES)	(ACRES)			1 1 6 6 6 7 8 8 8
IMMARY TO	SJAMARY TOTAL POTENTIAL 14984-8	<b>⇒</b> 05	13798.6	15552.4	14256.2	9772.1	11679.3	ROSS EROSION 13798.6 1552.4 14256.2 9772.1 11679.3 14558.9 1564.8 .7 .7 .9	•
JERCENT REDUCTION:	DUCTION: 0.0	20.5	1.1	-1.4	1.6	32.5	13.4		

LAKE ERIE MASTELATER MANAREMENT STUUV U.S. APPV CORPS OF ENGINEERS. RUFFALO DISTRICT Land Management alternatives : "Est manarement practice scenarius

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TASIN: ROCKY		EFRER. OM	•	<b>8</b> 000	CRUNTY: 62 ALL	62 all im masiw			
		T.REDUCE SOIL SPRING LOSS TO 7 PLONIN AND EXISTING DULY (TONS) (TONS)	SPRING PLONING G DALY (TONS)	FALL PLOWING DHLY (TONS) (TONS/ACPE)	EINTER COVER CROP (TOVS/ACRT)	MAYIMUM REFUCTION TILLAGE (TOWS/ACRE)	REDUCED TILLAGE: CMISEL PLOA (TOMS) (TOMS/ACRE)	\$011 Mc-1. 61332 Lavo 44Ea (aC455)	EMISTING S)1L 1085 > T FACTON (ACMES)
3.0PLAND 1	97272-4 8-1	_	92143.2	105243.1	94734.6	14268.4	1.0	36173.9 92163.2 105243.1 94754.6 14260.4 49319.2 11786.3 5.3 7.7 8.8 7.9 1.5	0.000E
	9927.6	9896.R	9430.0	10779.7	9671.6 2.3	1930.4	5021.3	4202.3	252.6
	53486.7	53446.7	50724.8	57910.0	52138.4	53486.7	53486.2	23552.5	0 0
	245.3	245.8	232.9	264.4	240.4	125.0	125.0	229.6	66
	1427.2	1427.2	1350.6	1542.3	1389.8	1427.2	1.27.2	1997.9	e e
	35699.0 81.8	1423.7	33769.4	32593.6 88.5	34754.2	6753.4	18090.7	436.3	8.98 + 8.18
<b>-</b>	1	102653.6	187550.9	214555.1 192909.0 5.0 4.5	192909.0	81891.6 127073-1 3.9 5.0		. 2-50559	[
	138.9 160.7 86	138.9 ( 160.7 (	(TONS) JA (ACRES) (R (TJVS/ACRE)	JATER Grea only	757.8 (ACRES)	ACRESI			
	6716.7 41747.5	6716.7 (TONS) 41747.5(ACRES) •16 (TONS/	ACRES	JTHER LAND JSE AREA	20529.3 (ACRES)	ACRES)			
	16966.2 28566.5		(TOVS) 41	4 ISSING DATA	36443.0 (ACRES)	AÇRES)		•	
	i		271541.4 1.8	306830.2	278495.5	131668.2	191948.5	055 FROSION 159127.2 271541.4 306830.2 278495.5 131668.2 191948.5 149422.3 1.1 1.8 2.1 2.1 2.1 1.9 1.9	
	•	***	# • <b>•</b>	-7.5	2.4	95.9	32.7		

LAKE ERIE MASTEWATER NAMAGEMENT STUDY
LAND MAMAGEMENT ALTERNATIVÉS : BEST MANAGEMENT PRACTICE SCEMARIUS

	EA 15 1 W6 S31 L LOSS > 7 FACTOR (ACRES) (10 85 ACRES)	565.2	200.5	•••	• •					
	SOIL MENT. SAGUP LAND AREA (ACRES)	520.2	112.2	23.8	23.0	1056.1			•	9891.9 8937.9 2046.8 4835.5 3551.5 2.7 2.4 .6 1.3 -7.6 2.6 77.7 47.5
	REDUCED TILLAGE: CHISEL PLOW (TONS)	2602.1	896.3	•••	8.71	3521.3				4635.5
NA. 0HIO	MAXIMUM REDUCTION TILLAGE (TONS)	971.4	334.5	* *-	17.8	1532.1	ICRES)	ICRES)	CRESI	2046.8
COUNTY: 17 REDINA, OHIO	ALNTER COVER CROP (TONS)	4995.9	1720.3	16.1	17.5	1.676.6 4.69.6	25.0 (ACRES)	574.1 (ACRES)	790.8 (ACRES)	8937.9 2.4 2.6
COUNT	FALL PLOWING ONLY (TONS) (TONS/ACRE)	- 1	1911.5	17.6	19.2	7499.6	JATER Jaea daly	JTHER LAND JSE AREA	41SSING DATA	9891.9 2.7 -7.6
INDEPRIDENCE, ON	_	•	1672.5	15.6	16.8	-1	(TONS) JATER JACRES) JAEA (TONS/ACRE)	ACRE)	(TONS) 41S (ACRES) (TONS/ACRE)	S EROSIJA 5030.8 R699.4 3.4 2.4 45.2 5.2
IND EP ET		5134.7 2104.7 4657.2 9.7 4.0 9.2	1539.0	34.5	8.7.	3670.0	0.00	201.4 (TOWS) 1400.8(ACRES) .14 (TOWS)		S
106A RIVER	EXISTING POTARCOUCE SOIL GROSS 105S TO T EROSION AND EXISTIN (TOMS) (TOMS) (TOMS/ACRE)	5134.7	1768-1	16.5	17.8	6937.1	0 0 0 1 0 0 0 0 0	201.4	75.6 413.5	76.4 2.5 0.0
BASIN: CUYAMOGA RIVER		Ste 1	213PLAND SM6 2	SAG 4	CROPLAND S46	1.10PLAND 6.55	VINEYARDS AUD ORCH.	SRASSLAND AND PASTURE	ONVIGOOF	SJAMARY TOTAL POTENTIAL GR. 9176.4 9176.4 2.5 2.5 2.5 2.5 0.0

LAKE ERIE WASTEWATER MANAREMENT STUDY Land management alternatives : rest manatiment practice scenarios

31514: CUYAHOGA RIVER	THOCH RIVER	INDEPRIDENCE, ON	EMCF, OH	NOCO	COUNTY: 19 CUVA	14 CUVAHJ64. OH10			
TAND USE			SPR146 PLOWING 7 DWLY (TDYS) (TONS/ACRE)	FALL PLOUING DALY (TONS) (TONS/ACRE	EINTER COVER CROP (TOUS) (TONS/ACRT)	E &	REDUCE) TILLAGE: CHISEL PLOM (TOYS)	SOIL MEMT. Sejup Lavo Ates (access)	
346 1	2221.5	1255.1	2189.3	2527.4	2173.2	11111111111111111111111111111111111111	1094.7	· · · · · · · · · · · · · · · · · · ·	20 a QS
SAGPLAND 2	479.1	479.1	472.2	545.1 7.4	468.7	72.9	235.1	206.7	9.0
330PLAND 3	1250.9	1250.9	1232.7	1423.1	1223.7	1250.9	1250.3	620.0	6.6
STOPLAND 5	15.0	15.0	# . # .	17.1	14.7	15.0	15.0	23.0	000
STOPLAND STG 10	1741.4	6.8 • 9 3 • 0	1716.2	1981.2 66.1	1703.6	265.0	859.1 37.3	25.0	23.0
310PLAND 5707.9	5707.9	3067.0	5625.2	6493.9 5.0	558349	1941.9	3656.9	1285.0	
VINEVARDS AND DRCH.	900	0.0 (10NS) 0.03 (10NS)	٨٥٩٤	JATER AREA JULY	323.5 (ACRES)	ACRES)			
SAASSLAND AND PASTURE	1833.3 7026.8 .26	1453.3 (TONS) 7026.8(ACRES) .26 (TONS)	ACRE)	JTHER LAND JSE AREA	10035.0 (ACRES)	ACRES)			
4300LAND		5894.7 (TONS) 13961.8 (ACRES) .42 (TONS/A	1.1-8 (ACRES) 41 -4-2 (TOMS/ACRE)	MISSING DATA	21858.2 (ACRES)	ACRES)	•		
3J49AAY TOTAL POTENTIAL 26608.6	87 JA [ 98 . 6	6.805S ER.05104 26444.8 28165.2 26363.0 19150.3 22146.5	264443	28165.2	26363.0	19150.3	22146.5	44112.9	
PERCENT REDUCTION:	1CT10N:	19.7	9.	-5.8	6.	28.0	15.9		

LAKE ERIE WASTEJATER MAMAGEMENT STUGY LAND MANAGEMENT ALTERNATIVES: BEST FANAGEME'IT PRACTICE SCENARIOS

	E ( 15 T / 46 S) 1L LOSS > 1 F A C T OR ( A C R E S ) ( T OM S / A C R E ) ( T OM S / A C R E )	45.4	00	0 0 0	0 0	26.0	1				
	5016 NGMT. GROUP LAND AREA (ACRES)	•	620.0	603.7	163.7	45.3	2686.7				1 42510.3
	MEDUCED SO TILLAGE: GO A CTONS) (TONS) (TONS)		865.7	906.0	46.7	1212.3	6106.9				)
11. UH 10	MAKIMUM REDUCTION TILLASE (TONS) (TONS)	1419.5	399.5 9.	906.0	46.7	559.8 12.2	3331.5	1CRES)	ACRESI	ACRES)	36420.3
COUNTY: 29 SUMMIT, UMIG		3028.2	852.3	986.0	.3	1194.2	6027.4	137.8 (ACRES)	18570.7 (ACRES)	43125.3 (ACRES)	6 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LNOCO	FALL PLOWING ONLY (TONS) (TONS/ACRE)	2933.6 3690.7 2.8 3.5	1038.6	1104.1	57.0	1455°5 31°7	7346.1	AATER Brea only	JTHER LAND JSE AREA	4 ISSING DATA	42164.9
ICE, OH	SPRING PLOWING ONEY (TONS)	2933.6 2.8	825.7 1.3	877.7	.5.3	1156.9	5839.2	) ACRF3	ACRE)	11.2 (TONS) 415 11.8 (ACRES) .32 (TONS/ACRE)	40024.1
INDEPENDENCE, OH	ぬし よし し	2905.4	852.3	906.0	6.3	114.8 2.5	4825.2	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	10065.4 (fONS) 60807.114CRES) 17 (TONS)	11311.2 (TONS) 35891.8 (ACRES .32 (TONS)	5ROSS FROSION 38576.1
tOGA RIVER	GROSS GROSS EROSION (TONS)	40PLAND 3028.2	852.3	906.0	.3	1194.2	6027.4	0000	10065.4 60807.1	12307.8 35891.8	. POTENTIAL 6 40294.0 .3
34514: CUYAHOGA RIVER	TAND USE	246 1	CAOPLAND S46	S43 S45	C10PLAND S16	SASPLAND SAS 10	1	JI VEYARDS AVD DRCH.	JARSSLAND AND PASTURE	JOODLAND 12307.8 11311.2 (TONS) 11551NG DATA %3125.3 (ACRES) 35A91.8 35B91.8 (ACRES) .32 (TONS/ACRE)	SUMMARY TOTAL POTENTIAL GROSS FROSION 40294.0 38576.1 3 3576.1 3 5876.1 3 5876.1 0 0.0 4.3

LAKE ERJE BASTEBATER MANAGEMLNI STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES : PEST MANADEMENT PRACTICE SCENARIUS

	ERISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE)		0.0	5 C C C C C C C C C C C C C C C C C C C	00					
	SOIL MGMT. SAOUP LAND BAEA (ACATS)	357.4 224.5	757.4	114.8	45.3	1430.1 114A.1				ROSS EROSION 18682-5 18522-6 19959.3 18682-5 15114.2 18397.2 94286.9 .2 .2 .2 .2 .0 .9 -6.8 0.0 19.1 1.5
			9 25 . 2	150.0	7.6					18397.2
154. DHIO	44KINUM MEDUCTION FILLAGE (TONS)	13.6. 170.6 10.6. 170.6	436.7	150.0	7.6	1487.9 1455.5 1746.6 1487.9 764.9 1.3 1.3 1.5 1.5 1.3 .7	ACRES)	ACRES)	ACRES	15114.2
CCUNTY: 21 GEAUGA, DHEO	1 3 6 C C	<u> </u>	456.7	150.0	3.5	1487.9	1377.A (ACRES)	1951.9 (ACRES)	67145.1 (ACRES)	18682.5
NO.	FALL BINTE CUVER JALY CREP (TONS) (TONS	373.6 565.5 678.6 1.6 1.6	1123.0	176.1	E. CA	1746.6	JATER Area only	JTHER LAND JSE AREA	ISSING DATA	19959.3
INDEPENDENCE, OH	REDUCE SOIL SPRING LOSS TO T PLOBING AND EFFING ONLY (TOWS) (TOWS)	365.5	955.7	146.7	1.4	1455.5	) ACRE)	ACRF)	14.6 (TONS) 41: 13.9 (ACRES) 19 (TONS/ACRE)	18522.6
INDEFEN			956.7	150.0	7.6	1487.9	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	642.9 (TONS) 7049.8(ACRES) .09 (TONS)		
HOGA RIVER	GROSS GROSS EROSION (TONS)	439LAND 373.6	956.7	150.0	7.6	1487.9	000	642.9 7049.8	1654.6 8863.9	87.7AL 82.5 9.0
BASIN: CUYAMOGA RIVER	TAND USE	143PLAND 543	CROPLAND S46	STOPLAND STG 3	CROPLAND 346 5	120PLAND 1487.9	JIVETARDS AND ORCH.	344SSLAND 440 PASTURE	GOOFAND	SJMMARY TOTAL POTENTIAL 3JMMARY TOTAL POTENTIAL 3682.5 25ERCENT REDUCTION: 9.0

LAKE ERIE WASTEWATER MAMAGEMENT STUDY Land management altermatives : Best managiment practice scenarios

BASIN: CUYA	CUYAHOGA RIVER	INDEPENDENCE, OH	ICE, OH	<b>2</b>	CCUNTY: 22 PUTTAGE, 3HIO	AGE . 3HIO			
	EXISTING POT GROSS EROSION (TONS)	•	SPRING PLOWING CONLY (TONS)	FALL PLOWING DNLY (TONS)	FALL BINTER MAXIMUM PLOBING COVER REDUCTION ONLY CROP TILLAGE (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCES 71LLAGE: CHISEL PLOW (TONS)	SOL 46MT. Stoup LAND AREA (ACRES)	
CROPLAND S46 1	15864.1	.[	15643.7	17516.6 15864.1 7.4 6.7		3194.8	8372.7	2365.2	2204.5
330PLAND S46 2	9088.6	7809.5 5.7	8962.3	10035.3	9088.6	1830.3	4796.1	2135+5	3.539.6 8.4
SAS SAS	2553.5	2305-6	2518.0	2819.5	2553.5	2553.5	2553.5	1056.3	597.1
CROPLAND SYG 4	0 m	10.01 V.	10.3	11.6	10.5		5.5	23.0	0.0
343 5	253.8	253.8 .5	250.3	280.2	253.8 4.	253.8 .5	25.55.25.25.25.25.25.25.25.25.25.25.25.2	551.1	0.0
CROPLAND S46 10	4145.2 36.1	298.5	4087.6	1577.0	36.1	834.8	2187.7	114.8	114.8
I		19647.0 31472.2	31472.2	35240.2 31915.7 5.6 5.8	31915.7	8672.7	18163.3	6246.3	
FINEYARDS	0 000	0.00	(TONS) JA (ACRES) (RE (TONS/ACRE)	JATER IRZA JNLY	1377.8 (ACRES)	ACRES,			
STASSLAND AVD PASTURE	5963.9 59911.6	5963.9 (TONS) 59911.6(ACRES) .10 (TONS)	ACRE)	JTHER LAND JSE AREA	14489.5 (ACRES)	ACRES)			
43031.AND	4626.7 27877.6 .17		(TONS) 419 (ACRES) (TONS/ACRE)	415SING DATA	25581,2 (ACRES)	ACRES)		·	
SJAMARY TOTAL POTENTIAL 54069.7	SJAHARY TOTAL POTENTIAL 54069.7	6ROSS EROSION 38463.4 53505.5	5.505.5	58298.5	54296.7 54069.7 24203.7 3638	24503.7		.5 119616.4	
STACENT REDUCTION:	0.0	28.9	1.1	.7.4	3.6	54.7	32.3		

LARE ERIE WASTEWATER MANAREMENT STUDY U.S. ARMY CORPS OF ENGINCERS. BUFFAL) DISTRICT Land Management alternatives : best management practice scenarios

COUNTY: 25 STARK. OHIO

INDEPENDENCE, OH

SASIN: CUVANGGA RIVER

M (7 ), ( W W W	.4MO USE EXTSTING POT- GPOSS E40S134 (TOMS)	1055 TO T PLUWING AND EXISTING ONLY (TONS) (TONS) (TONS)	LOSS TO T PLUNING PLOUING COVER REDUCTION TILLAGE: AND EXISTING ONLY CROP TILLAGE CHISEL P_JA (TONS) (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS)	LINTER COVER (ROYP (TONS) (TOUS/ACRE)	44XIMU4 4EOUCTION TILLAGE (TOVS) (TOMS/ACRE)	REDUCED SOIL TILLAGE: 640UP CHISEL P.J AREA (TOMS) (ACRE)	LOSS TO T PLOUING PLOUING COVER 9EOUCTION TILLAGE: 643JP LAVO AND EXISTIVG DALY CROP TILLAGE: 643JP LAVO AND EXISTIVG DALY CROP TILLAGE CHISEL P.34 ANEA (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS) (TOWS/ACRE) (TO	EXISTING 5316 LOSS > 7 FACTOR (454ES) (TOVS/ACRE)
	LADPLAND 0.0	0.0	0.0	0.0	0.0	0.0	6.0		
	000	0.0 (TJ4S) 0.0 (ACRES) 0.00 (TOMS/A	CRC	JATER . Area only	0.0 (ACRES)	ACRES)			
	179.8 1515.6 .12	179.8 (TO4S) 1515.6(ACRES) .12 (TONS/	ACRES	STHER LAND JSE AREA	2135.6 (ACRES)	ACRES)			
		0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/A	0.0 (TONS) 415: 0.0 (ACRES) 0.00 (TONS/ACRE)	FISSING DATA	1906.0 (ACRES)	ACRESI	·		•
204	411AL 05.9	GROSS EROSION 405.9	405.9	+05.9	495.9	405.9	405.9	GROSS EROSION 405.9 405.9 405.9 405.9 405.9 405.9 521.5	
PERCENT REDUCTION:		0.0	0.0	0.0	0.0	0.0	6.9		

LAKE ERIE MASTEMATER MAMAGEMENT STUUV Land mamagement altermatives: Best mamagiment practice scrwarius

SASIN: CUYA	CUYAHOGA RIVER	INDEPE	INDEPENDENCE, UN	NAO D	COUNTY: 62 ALL	IN BASIN			
14ND USE	EXISTING POT. 680SS EROSTON 410MS)	ALOSS TO T AND EXISTIN (TOMS)	SPRING PLOUING 16 ONLY (TONS)	FALL PLOSING ONLY (TONS) (TONS/ACRE)	ELMTER COVER CROP (TONS)	MAKIMUM REDUCTION TILLAGE (TOYS)ACRE)	KEDUCED FILLAGE: CMISEL PLOW (TONS)	\$016 M6MT. \$10JP LAVD A4EA (A6AES)	E
CLOPLAND S46 1	10PLAND 26622.1	15605.9	25989.3	25989.3 29724.2 26435.1 6094.4 5.7 5.7 5.7 6.5 5.8	26435.1 5.8	6094.4	15562.3	4569.7	3050.1
SASPLAND 2	13144.8	11636-6 2.8	12868.6	14653.7 3.5	13086.6	3074.0	7709.5	+282+3	1863.0
CAOPLAND S46 3	4860.3	1612.4	4775.2	3522.8 2.1	4833.1	4860.3 1.9	4860.3 1.9	2594.9	597.1
S46 4	27.0	27.0	26.0	\$ <del>6</del> 6 7	26.6	13.9	13.3	45.9	
CROPLAND S46 5	340.9	9.048	334.6	382.4	340.1	0.040	E * 0 + E	526.7	• · · · · · · · · · · · · · · · · · · ·
SHG 10	7080.9	482.2	6960.7	8013.6	7043.0	1659.6 9.0	4258.7	183.7	185.7
SASPLAND	11 52076.0 53076.0	1	32705.0 50954.4 56326.1 2.6 4.1 4.7	58326.1	51764.5	16043.1	32685.5 2.5 2.5	12423.2	
VINEYARDS AUD ORCH.	•••	0000	(TONS) JA (ACRES) NR (TONS/ACRE)	JATER Grea Only	3237.6 (ACRES)	ACRESI			
BRASSLAND And Pasture	18886.6 137711.6	1886.6 (TDVS) 137711.61ACRES)	ACRE.)	JTHER LAVD JSE AREA	47557.3 (ACRES)	ACRESI			
4330LAND	24259.4 87008.4 620	23562.9 (TONS) 87008.4 (ACRES	2.5 (TONS) +1 8.4 (ACRES) -27 (TONS/ACRE)	41SSING DATA	160376.5 (ACRES)	ACRES)			
SJANARY TOTA		U3	157739.1	176096.2	159097.1	49217.k	127115.4	AOSS EROSION 127197.9 157739.1 176546.2 159097.1 49217.8 127115.4 597519.7	
PERCENT REDUCTION:	UCTION: 0.0	20.3	1.2	-6.0	٠.	37.4	20.4		

LAKE ERIF WASTEWATER RANGEMENT STUDY U.S. ARRY CORPS OF ENSINEERS, BUFFALO DISTRICT LAND HANAGEMENT ALTERNATIVES : REST HANAGEMENT PRACTICE SCEVARIOS

	54187186 5)11 338 5)11 338 7 77008 (1089/ACRE)	0.0		0.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0 0 0 0 0 0 0 0 0 0	•	
	EDUCE) SJIL 9GMT. ILLAGE: G13JP LAND HYSEL PLOW AFEA TOWS: (6<2ES)	137.9	91.9	₽ • 10 <b>•</b>	275.5			NS) 415SING DATA 22573.1 (ACRES) RES) NS/ACRE)	35409.7	
			194.4	23.4	234.7 481.5				5652.1	•
1T. 0HIO	PLOMING COVER REDUCTION OUT CROP TILLAGE (TONS) (TONS) (TONS) (TONS)		1.0	23.4	234.7	ACRESI	ACRES)	ACRESI	4972.2	11.7
COUNTY: 19 SUMMIT. OHIO	MIVIER COVER CROF (TONS)	259.5 251.4 316.2 259.5 1.9 1.8 2.3 1.9	191.4	23.4	*7*.3	23.0 (ACRES)	PNST.2 (ACRES)	22573.1 (ACRES)	5633.1	
2003	FALL PLOWING OWLY (TONS) (TGSS/ACRE)	316.2	233.2	2A.6	474.3 459.5 576.0 1.7 1.7 2.1	JATER AREA OMLY	JTHER LAND USE AREA	AISSING DATA	5919.2	-5.1
OLP POPTAGE. CH	AEDUCF SOIL SPRING LOSS 77 7 PLOBJYG AND EXISTING ONLY (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	251.4	145.4	22.7	459.5	) ACRE)	ACRES		-	•
סרני של		259.5	191.4	23.4		0.0 (TONS) 0.0 (ACRES	939.0 (TONS) 8818.0(ACRES) 11 (TONS/	528.8 (TONS) 3743.0 (ACRES) 3743.17 (TONS/A	5655.1 5655.1	0.0
₩90#		259.5	191.4	23.4	474.3	900	939.0	628.8 3743.0	83.1 53.1	9.0
345IN: CUYAHOGA		CROPLAND 259.5	343 2	CROPLAND S46		FINEVARDS AND ORCH.	SRASSLAND AND PASTURE	4330LAVD	SJAMARY TOTAL POTENTIAL S633.1	בערבאו אבססי

LAKE ERIE WASTEWATER MAMAGEMENT STUDY U.S. ARMY CORPS OF EYGINEERS, BUFFALO DISTRICT Land Management alternatives : Best Management Practice scenarios

	EN1571NG SDIL LOSS > T FACTOR (ACRES) (TONS/ACRE)	0.0	00	• •		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
•	EDUCED SOIL MEMT. ILLAGE: GROUP LAND HISEL PLOA AREA TONS) (ACRES)	229.6	157.8	114.5	# °5°	1146.1			1646.0 (TONS) 415SING DATA 67076.1 (ACRES) B749.1 (ACRES) .19 (TONS/ACRE)	63931.2
		_	915.1	150.0		1430.1				18501.5 .2 1.5
6A. 34IO		170.6	436.7	150.0	7.6	1467.9 1455.5 1746.6 1487.9 764.9 1430.1 1.3 1.3 1.5 1.5 1.5 1.3 .7 1.2	ACRESI	ACRES)	ACRESI	15189.2
COUNTY: 21 GEAUGA. JAIO		373.6	956.7	150.0	7.6	1487.9	1331.9 (ACRES)	1883.0 (ACRES)	67076.1 (ACRES)	18789
COUNT	FALL PLOWING ONLY (TONS) (TONS/ACRE)	1.9	1123.0	176.1	80 . 50 . 50	1746.6	dater Area only	JTHER LAND JSE AREA	41SSING DATA	20077.5
OLD PORTAGE. UM	IG ACRE)	1	935.9 1.2	146.7	1.1	1455.5	J ACRE)	ACRE)	16.0 (TONS) 41S 19.1 (ACRES) 19 (TONS/ACRE)	18628.1
010 60	LOSS TO T PLOVING AND EXISTING ONLY (TONS) (TONS)	373.6	956.7 1.3	150.0	9.2	1	0.0 (TONS) 6.0 (ACRES 0.00 (TONS/	6957-9(ACRES)	1646.0 (TONS) 8749.1 (ACRES) .19 (TONS/A	18789.4 18789.4 0.0
49 <b>0</b> 4	GRISTING POT- GROSS EROSION (TONS)	-[	956.7	150.0	7.6	1	000	639.4 6957.9 69.	1646.0 8749.1 .19	SUMMARY TOTAL POTENTIAL GROSS EROSION 18789-4 18789-4 2 2 2
345IN: CUYAHOGA		CROPLAND	340PLAND 546	CAOPLAND S46 3	SAG SAG S	ROPLAND	VINEVARDS And orch.	STASSLAND AND PASTURE	4000LAND	SUMMARY TOTAL POTE 187 26ACENT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT LAND MANAGEMENT ALTERNATIVES : FEST MANAGEMENT PRACTICE SCENARIOS

	7. EKISTING SDIL LOSS > 7 FACTOR (ACRES)		5 5.55.54 6.4	321.5		0.0	\$0.00 B	5465.2	,			
	SOUP LAND SAOUP LAND AREA (ACES)	2066.7	2112.5	734.9	23.0	182.2	45.5	5465-2				
	##XINUM #EDUCE) #EDUCTION TILLAGE: ####################################	7035.0	4785-1	1494.0		219.9	181.1	14319.2			•	144555.7 44559.9 45020.9 20074.4 30267.1 1
22 FOF TAGE . OMIO		110264 2653U+3	1925.9	1494.6	5.5	219.8	298.2	6527.2	I ACRES)	(ACRES)	ACRES)	20074.4
COUNTY: 22 FOR	7000-	-	9056.6 4.3	1494.0	10.5	219.8	1480.6 32.5	25597.9	1263.0 (ACRES)	13410.6 (ACRES)	24869.4 (ACRES)	42020.9
กับดว	FALL FLOWENG DYLT (TOWS/ACRE)	1471446	10911.9	1649.7	11.5	242.7	25.50 35.6	17677.2 25242.3 2P264.4 25597.9 3.2 4.6 5.2 4.7	dater Grea dnet	JTHER LAND JSE AREA	4 ISSING DATA	4.8599.9 5.5
OLD PORTAGE + CH	REDUCE SOIL SPRING LOSS TO T PLCAING AND ERISTING ONLY (TONS) (TONS/ACRE) (TOUS/ACRE)	6.14121 6.14121	8940.7	1473.3	10.5	216.7	1468.0	25242.3	(TONS) 4A (ACRES) (R (TONS/ACRE)	ACRED	18.8 (TONS) 41 (2.0 (ACRES) -16 (TOYS/ACRE)	
010	•	142.4 15141.3 3.9 6.4	17117.7	1426.1	30.5	219.9	160.7 3.5	_	0000	4769.1 (YONS) 50129.2(ACRES) .09 (YONS)	4058.8 25122.0	64055 FR0510 54659-8
14064	GROSS GROSS EROSION (TONS)	1	8.4 8.4	1494.0	10.5	219.6	1488.6	CROPLAND 25597.9	000	40.108 5.62108	4656.8 25122.0 .16	SJAMARY TOTAL POTENTIAL 6 45620.9
345fW: CUVAHOGA	. AND USE	1 2 4 0 PL AND 3 4 6 1	STOPLAND STS	STOPLAND	STOPLAND	C10PLAND S46 5	SA3 10	CLOPLAND	/INEYARDS AUD ORCH.	34ASSLAND 44D PASTURE	4000LAND	SJRWARY TOTAL POTENTIAL 4522.9

LAKE ERIE WASTEWATER MANAGENEMT STUDY Land managenemt alternatives : Best Managenemt Practice Scenarios

BASIN: CUTAHOGA	UVAHOGA	010	DLD PORTAGE+ OH	NPCC	COUNTY: 62 ALL	62 ALL IN BASIN			
TAND USE	EXISTING PO GROSS EROSION (TONS) (TONS/ACRE)		N F "	40	30000	E &	& r U +	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING S)IL LOSS > T FACTOR (ACRES)
CAOPLAND SM6	3.00LAND 13959.5 16 1 1 5 5.7	8718.5 3.6	13758.2	15469.4	13959.5	2976.0	7654.5	2434.1	9.9
S43 2	10214.6	8865.7 3.0	10061.9	11367.5	10214.6	2352.4	5894.5	2962.3	1515.6
CROPLAND S96	1667.5	1599.6	1642.7	1854.3	1667.5	1667.5	1667.5	895.6	321.5
340 AND	10.5	10.5	10.3	11.6	10.5	νη • • •	.c. c.	23.0	
CROPLAND S46	227.3	227.3	224.1	251.6 .5	227.3	227.3	227.3	628.2	• • •
STOPLAND STS 10	1480.6	160.7	31.8	1634.8 35.6	32.3	298.2 6.5	781.1	4.5.4	45.9 32.3
CAOPLAND	27566.0   2766.0	19639.3	27151.2	30589.0	27560.0	7526.9	16230.5	6889.1	# 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VIVEYARDS AND ORCH.	0 0 0	000	(TONS) 41 (ACRES) AR (TONS/ACRE)	dater Area only	2617.8 (ACRES)	ACRES)			
334 SSLAND 4vd pasture	6338.6 0.388.0 10.388.0	6338.6 (TONS) 65905.0(ACRES) .10 (TONS)	ACRE)	JTHER LAND JSE AREA	23350.8 (ACRES)	ACRESI			
4000LAMD	6333.6 37614.1	6333.6 37614.1	*	TISSING DATA	114518.5 (ACRES)	ACRESI			
SJAMARY TOTAL POTE	SJAMARY TOTAL POTENTIAL G	ق ت	81141.6	88132.9 81962.2 41150.2	81962.2	41150.2	58881.5 2249	224326.7	# # # # # # # # # # # # # # # # # # #
	0.0	19.7	1.0	-7-5	0.0	49.8	29.5		

LAKE ERIE WASTEVATER RANAGERENT STUDV Land Ranagerent Altervatives : Best Vavasiment Practice Scenarios

JASIN: CUVA	BASIN: CUVANOGA RIVEF	PENIN	PLAINSOLA. CA		0110 1111111111111111111111111111111111				
AND USE	EXISTING POT GROSS EROSION (TONS)	-REDUCE SOIL LOSS TO T AND EXISTIN (TONS)	N E 0	FALL PLOWING ONLY (TONS) (TONS/ACRE)	VINTER COVER CROP (TONS)	MAXIMUM MEDUCTION TILLAGE (TONS)	E - ()	531L MGMT. 343UP LAVO 44E4 (ACRES)	EAISTING S)1L LOSS > 1 FACTOR (ACRES)
STOPLAND STG 1	5134.7	2104.7	4457.2	5551-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	971.4	2602.1	528.2	505.2
CROPLAND 343 2	1768.1	1539.0	1672.5	1911.5	1720.3	334.5	1.3	.82.2	500.9
CADPLAND 4	16.5	16.5	15.5	17.8	16.1	**	•••	23.8	90
CROPLAND 545 5	17.8	17.e .8	16.4	19.2	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	87.8	87.8	23.0	99
1	6937.1	3678.0	-1	7499.6 7-1	6749.6	1332.1	3524.5	1.36.4	
/IVEYARDS And orch.		000	(TOYS) JATER (ACRES) ARFA (TOWS/ACRE)	JATÉR Srfa only	2 5.0 (ACRES)	ACRESI			
STASSLAND AND PASTURE	201.4	201.4 (TONS) 1400.8(ACRUS) -14 (TONS)	ACRE)	JTHER LAVO JSE AREA	574.1 (ACRES)	ACRESI			
4000LAND	75.6 413.3	75.6 413.3	(TONS) 4 IS (ACRES) (TONS/ACRE)	WISSING DATA	780.8 (ACRES)	4 ISSING DATA 780.8 (ACRES)	•		
SJAHARY TOTAL POTENTIAL 9176.4	POTENTIAL 9176.4 2.5	68085 EROS 5630.3	8699.4	9891.3	8937.9 2.4	2046.8	4435.3	3651.3	
PERCENT REDUCTIONS	0.0	45.2	5.5	-7.8	5.6	11.1	47.5		

LAKE ERIE MASTEVATER MANAGENEYT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT Land hambgeneyt alternatives: best management practice scenarius

3AS14: CU	3ASIN: CUYAHOGA RIVER	PENINS	PENINSULA, OH	COUNT	COUNTY: 18 CUYAHOGA. 0H10	H06A • 0H10			
TAND USE	EXISTING POT-		PLOUING PLOUING DWLY (TONS)	EDUCE SOIL SPRING FALL OSS TO T PLOWING PLOWING IND EXISTING DULY JULY TONS (TONS) (TONS) TONS/ACRE) (TONS/ACRE)		* & b c c c	& - D	SOIL MGMI. SADUP LAND AREA (ACRES)	EX151146 \$511 LOSS 5 7 FACTOR (ACRES) (TOMS/ACRE)
1	8-1	•	63.1 3.6	68.9 63.1 95.9 5.9 3.6 4.2	82.5	12.8	p=4	41.5 23.0	23.0
CAOPLAND SY6 3	175.2	175.2	172.7	195.5	171.4	175.2	175.2	68.3	0.0
SROPLAND	ROPLAND 259.5	244.1	{	1295.2	253.9	188.0	216.3	255.8 295.2 255.9 188.0 216.3 91.3 2.6 3.2 2.8 2.0 2.4	
FINETARDS SUD ORCH.	9 2 9 9 2 9 9 2 9	0.00	(TONS) 4A (ACRES) 4R (TONS/ACRE)	AATER Area dney	3.0	0.6 (ACRES)			
SRASSLAND And Pasture	34.0 413.3	34.0 (10NS) 413.3(ACRES) .08 (TONS)	ACRE)	JTHER LAND JSE AREA	229.6 (ACRES)	ACRES)			
LOODLAND	79.4 826.7 ,10		9.4 (TOWS) 45 6.7 (ACRES) *10 (TOWS/ACRE)	41SSING DATA	298.5 (ACRES)	ACRES)			
5J44ARY 10			451.9	500.2	1 4 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	368.9	404.2	GSS ERGSION 451.3 500.2 49.6 568.9 404.2 1530.4 457.6 451.3 .3 .3 .3 .2 .2 .2	
PERCENT REDUCTION:	0UC110N:	4.1	3.0	9.6-	1.5	19.2	11.5		

LAKE ERIE MASTEJATFR MANAGEMENT STUCY U.S. ARMY CORPS OF ENGINEERS. PUFFALO DISTRICT Land management alternatives : pest panagement practice scenarios W: cuvanga river pfysisula. 34 county: 13 sunatt. 0410

LAND USE	EFISTING FOT- GROSS EROSION 110NS)		7 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		UINTER COVER CROP (TOYS) (TOYS)	I &	REDUCED TILLAGE: CHISEL 2.34 (TOMS)	501L MG#T. 540UP LAND 41E4 (4C4ES)	CE 15 T VG 53 K LOSS 5 T FACTOR (4CRES) (1945/ACRE)
143PLAND 143	2650.6 3.0	2527.A 2.9	2567.7	3230.4	2650.6	1242.5	2692.0	472.6	
CROPLAND SWG 2	532,0	532.0 1.5	515.4 1.5	6 + F. +	552.6 1.5	249.4	5.00.5	344.5	9.0
STOPLAND 5	166.6	466.6	452.0	558.7	1.0	1.0	1.0	459.3	90
C40PLAND 346 5	21.6	21.6	20.9	26.3	21.6	21.6	21.6	6.19	9.0
213PLAND 546 10	845.9 36.8	45.9	819.4 35.6	2000 4.4.4	845.9 36.8	396.5	859+1 37+4	23.0	0.85 8.38
CROPLAND	**************************************	3593.9	4375.4	5504.7	4516.7 2.5	2376.6	4579.6	1791.3	***************************************
VINEYARDS Lad Orch.	# # # # # # # # # # # #	0.00	0.0 (TONS) JA 0.0 (ACRES) 18 0.00 (TONS/ACRE)	AATER ARTA ONLY	137.8 (ACRES)	ACRES)			
314SSLAND And Pasture	6232.2 37453.3	6232.2 (TONS) 37453.3(ACRES) .17 (TONS)	CAC	JTHER LAND JSE AREA	11435.8 (ACRES)	ACRESI			
MOODLAND	7121.7 19541.9 .36		12.7 (TONS) 41 11.8 (ACRES) .34 (TONS/ACRE)	41SSING DATA	33251.1 FACRES>	ACRES)	•		
SJRARY TOTAL POTE	SJAWARY TOTAL POTENTIAL CONTRACTOR 27978-7	- B	27757.4	29525°5	21918.1	24628-1	28077-1	ROSS E205134 27757.4 29525.5 27978.7 24628.1 28077.1 92057.5 26555.9 3 .3 .3 .3	
	9.0	5.2	•	-5.5	0.0	12.0	;		

LAKE ERIE BASTEMATER MANAGEMENT STUDY LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PHACTICE SCENARIUS

BASIN: CU	SASIN: CUYAMOGA RIVER	PENINS	PENINSULA. ON	COUNT	COUNTY: 21 GF &UGA+ OHIO	64 ON 10			
LAND USE	EXISTING POT- GROSS EROSION (TONS)	LOSS LOSS AND 110N	REDUCF SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ALRE)		JINTER COVER CROP (TONS)	FALL JINTER MAKINUM PLOJING COVER REDUCTION JNLY CROP TILLAGE (TONS) (TONS) (TONS)	HEDUCED TILLAGE: CHISEL P_D4 (TONS)	SOIL MGMI. GROUP LAND AVEA (ACTES)	
CROPLAND S46	373.6		365.5	373.6 3.65.5 4.38.6 373.6 1.0	373.6	170.6	357.4	529.6	0.0
S46 2	956.7	956.7 1.3	935.9	1123.0	956.7	436.7	915.1	157.9	00
CROPLAND S46	150.0	150.0	146.7	176.1	150.0	150.0	150.0	3.4.6	00
CROPLAND S43	7.6	1.6	7.4	89 2. 5.	7.6	7.6	4.6	45.9	9.0
STOPLAND	11111111111111111111111111111111111111	1487.9	1455.5	1746.6	1487.9	764.9	1430.1	1148.1	
JINEYARDS AYD ORCH.		0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/A	Carc	AATER Area orly	1531.9 (ACRES)	ACAES			
SRASSLAND And Pasture	639.4 E 6957.9	639.4 (TONS) 6957.9(ACRES) .09 (TONS)	ACRE)	JTHER LAND JSE AREA	1883.0 (ACRES)	ACRES)			
ONVIGOOP	1646.0 8749.1	1646.0 8749.1	(TONS) 419 (ACRES) (TONS/ACRE)	41SSING DATA	67076.1 (ACRES)	ACRES)		:	
3.44887 TO	SJAMAKY TOTAL POTENTIAL 18789.4	GROSS EROSION 18789.4		20077.6	18789.4	18628.1 20077.6 18789.4 15189.2 18501.5 83931.2	18501.5	63931.2	
PERCENT REDUCTION:	DUCTION:	0.0	e.	-6.9	0.3	19.2	1.5		

LANE ERIE LASTEVATER MANACEMENT STUTY U.S. ARMY CORPS OF EVGINEERS. BUFFALO DISTRICT Land Management Alternatives : Rest Management Practice Scevarios

34514: CUYAMOGA RÍVER	HOGA REVER	PENING	PENINCULA. OH	COUNTY:		22 PUBTAGE. JHIO			
AND USE	EXISTING POT GROSS EROSION (TONS)	•	SPRING PLONING DNLY (TONS)	REDUCF SOIL SPRING FALL JINTER MAKINUM LOSS TO T PLOWING PLOWING COVER REDUCTION AND EXISTING ONLY CROP TILLAGE (TONS) (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	JINTR CONER CROPE (ROMS) (TOMS)	4akjau4 REDUCTION TILLAGE (TOVS)	4EDUCED TILLAGE: CMISEL PLD4 (1995) (1995)	SJIL 4GMI. S40UP LAUN 44EA (4CRES)	E4187146 5016 LOSS > 7 F4C104 (ACTES) (1045/ACTE)
1	10PLAND 13326.4	-	13141.5	1071406	13326.4	26A3.R 1.3	7033.4	,	1985.0
243PLAND 343	9.066.6 8.4	3.7	F940.7	10011.7	9066.6	1625.9	4785.1	2112.5	1515.6
CROPLAND S46 3	1494.0	1426.1	1473.3	1649.7	1494.0	1494.0	144.0	734.8	321.5
SASPLAND S43	16.5	10.5	30.8	11.6	10. 8.	80 e e	10 0 0	23.0	000
CROPLAND S46 5	219.8	219.8 .5	216.7	242.7	219.8	219.6	219.B	482.2	000
SAG 10	1480.6 32.3	160.7	1460.0	1634.9 35.4	1480.6	298.2	17.3	65.3	45.9
1	CLOPLAND 25597.9 VINEYARDS 0.0	17677.2 17677.2 3.2 6.0 0.0	25242.5 4.6 (10NS) 4A	25242.3 2R254.4 25242.3 2R254.4 4.6 5.2 NS) 4ATER NS) 4REA ONLY	25597.9 65 4.7 4.7 1263.0 (ACRES)	6527.2 1.2 (ACRES)	1481912	3,65.2	
34ASSLAND And pasture	4760-1 50129-2 -09		ACRE)	JTHER LAND JSE AREA	13410.6 (ACRES)	(ACRES)			
4333LAND	4058.8 25122.0	4058.8 (TOWS) 29122.0 (ACRES	8.8 (TOWS) 41 2.0 (ACRES) .16 (TONS/ACPE)	ATSSING DATA	24869.4 (ACRES)	(ACRES)	•		
I	1	64659.8 54659.8 54659.8 54659.8	44555.7	9.6058+	*5020.9 **	20074.4	#055 Erosion 44555.7 48509.0 45020.9 20074.4 30267.1 1 34659.8 .4 .5 .4 .5 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	105565-9	
	•		•						

LAKE EKIE WASTEWATEK MANAGEMENT STUDY Land Management alternatives: Hest Management Fractice scenarics

BASIN: CUT	CUTANJGA RIVER	SA IA 3 d	PENINSULA, OM	No Co	COUNTY: 62 ALL	62 ALL IN BASIN			
LAND USE	EXISTING POT- GROSS EROSSON (TONS) (TONS/ACRE)		REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING DNLY (TOYS) (TOYS) (TOYS) (TONS/ACRE)	FALL PLOWING ONLY (TOYS) (TONS/ACRE)	EINTER COVER CROP (TONS) (TONS/ACRE)	LINTER MAKIMUN COVER REDUCTION TELAGE (TONS) (TONS) (TONS)	EDUCED ILLAGE: MISEL PLO4 TONS)	SOIL MEMT. 643UP LAND AMEA (ACRES)	E
120PLAND	21569.6	13217.4	21814.8	24030-5	21429.0	24030.5 21429.0 5081.1 6.5 5.8 1.4	12726.5	3720-1	2466-1
CAOPLAND S46 2	12323.3	10745.4	12064.4	13693.9	3.3	23.46.5 24.45	7136.5	3697.1	1868.0
240PLAND 346 3	2285.9	2217.9	2244.7	2593.e 1.9	2282.0	2285.9	2265.3	1577.3	321.5
SASPLAND S45	27.0	27.0	26.0	29.4	26.6	8.8 8.8 8.8	13.3	65.3	• •
CADPLAND SN6	266.7	266.7	261.3	297.1	266.2	266.7	266.7	6+3.0	0.0
210PLAND 346 16	2326.5	206.7	2279.5	2665.7	2326.5 33.6	10.1	1648.5	e • • • • • • • • • • • • • • • • • • •	33.
II	1-2-1-1	-1	37891.3	43310.4	38603.9	11188.8	24669.3	9552.9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
VINEYARDS And Gach.	9 0 E	0000	(TONS) 4/ (ACRES) AR (TONS/ACRE)	AATER Area omly	2755.6 (ACRES)	ACRES)			
SRASSLAND And Pasfure	11867.2 E 96354.5	11867.2 (TONS) 96354.5(ACRES) .12 (TONS)	ACRE	JTHER LAND JSE AREA	27533.1 (ACRES)	ACRES)			
JOOLAND	12981.5 54652.9 .24		12.5 (TONS) 41 12.9 (ACRES) -23 (TOMS/ACRE)	4 ISSING DATA	126275.8 (ACRES)	ACRESI			1 1 1 1 1 1 1 1 1
JAMARY TO	SJAMARY TOTAL POTENTIAL	+	112083-1	GROSS EROSION 112083.1 121764.2 113559.7 64	115359.7	64379.9	67392	85938.3	
PERCENT REDUCTION:	DUCTION: O.C	19.0	:	-7-1	7	*3.*	23.1		

LAKE ERIE BASTEBATER HANAGEREMT STUDY U.S. ARRY CORPS OF ENGINEERS, PUFFALO DISTAICT Land Hanagerent Alternatives : Best Hanagerent Fractice Scenarios

LAKE ENJE WASTENATER NANAGEMENT STUDY U.S. ARMY CORPS OF ENSINEERS, BUFFALO DISTRICT Land nanagement alternatives: Best Management practice scenarios

		9 · 6	# * * * * * * * * * * * * * * * * * * *	\$-50 \$-60	90						
			114.8	68.3	45.9	298+3			•	1736.7	
		203.7	266.0	196.5	1.21	683.3				1747.7	
16E+ 3HIO		77.7	102.3	196.5	17.7	394.2	O.O (ACRES)	ICRESI	ICRES)	1354.5	
COUNTY: 22 PORTAGE, 3HIO		385.9	507.8	196.5	17.7	1107.9	0.0	803.7 (ACRES)	1997.6 (ACRES)	2316.5	
COUNT	FALL PLOWING ONLY (TONS)	- [	560.6	217.0	19.5	1223.2	dater Area only	JTHER LAND JSE AREA	4 ISSING DATA	055 EROSION 1960.1 2295.8 2472.0 2316.5 1354.5 1747.7 7736.7 .3 .3 .2	
HIRAM RAPIDS. 31	SPRING PLOUING ONLY (TONS)	360.6	506.7	193.8	17.	1092.5	0.0 (TONS) JATER 0.0 (ACRES) AREA 0.00 (TONS/ACRE)	ACRE)	34.0 (TONS) 41S 78.6 (ACRES)	2295.8	
HIRA		275.6	390.4	. 159.8 2.3	7.11	843.5	0.00	216.6 (TONS) 2663.8(ACRES) .09 (TONS)	394.0 (TONS) 2776.6 (ACRES) .14 (TONS/A	1960.1	
DEA RIVER	EXISTING POT-REDUCE SOIL GROSS 10 T EROSION AND EXISTINI (TONS) (TONS/ACRE) (TONS/ACRE)	4.00 4.00 4.00	507.8	196.5	11.11	1107.9	000	216.6 2663.8 .08	394.0 2778.6	POTENTIAL 6	. 2071
345IN: CUVAMOGA RIVER	LAND USE GG	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	CROPLAND 54G 2	SAS SAS	CROPLAND S46 5	110PLAND 1107.9	JIVEYARDS AND ORCH.	314SSLAND And pasture	433DLAND	SLAWARY TOTAL POTENTIAL GROSS EROSION 2316.5 1960.1 .3	ACTRI MEDUCIJUR:

LAME EWIF WASTENATER MAMAGEMENT STUDY U.S. ARPY CORPS OF EVGINEERS. RUFFALO DISTRICT LAND GAMASEMENT ALTERNATIVES : PEST MAMANIMENT PRACTICE SCFWARICS.

5	GESIN: CUVAHOGA MIVER								
AVD USE	EXISTING POT SRUSS FROSION (TONS/ACRE)	LOSS	SFRING PLOAING 3 DULY (TOYS) (TOYS/ACRE)	F 0 - 0 -		COVER REDUCED COVER REDUCTION TILLAGE: CROSS (TOUS) (TOUS) (TOUS) (TOUS)	REDUCED TILLAGE: CHISEL 5.34 (TOWS)	TUTER WAXIAUM REDUCED SOIL MENT.  VVER REDUCTION TILLAGE: PROUP LAND  TILLAGE CHISEL D-24 ARE  TONS (TONS) (TONS) (ACRES)  TONS (TONS) (TONS/ACRE)	EAISTING SOIL LOSS VI FACTOR (ACRES)
1132640 346 1	159.5	649.2	746.3	954.3	759.5	248.5	561.0	298.5	6.89
STOPLAND 2	1064.4	1347.1	1455.6	1645.7	1464.4	539.0	1183.0	R72.6	114.9
: 43PLAND	346.5	5000 ·	340.5	393.1	346.5	346.5	346.3	183.7	6.5. 6.5.
310PLAND S46 5	25.2	25.2	24.8	28.4 . 5	25.2	25.2	25.2	6.16	96
CROPLAND		2	2547.9	331.3 2547.9 2459.9 1.6 1.9 20.1	-1	1159.0	2113.7	1006.7	J
VINEYARDS AVD ORCH.	 	0.0 (ACRES 0.00 (TONS)	ACRE)	JATER JREA ONLY	1331.9 (ACRES)	ACRESD			
SGASSLAND And pasture	856.0 9621.7 •09	#56.0 (TONS) 9621.7(#CRES) .09 (TONS/	CRE)	JTHER LAND JSE AREA	2686.7 (ACRES)	ACRESI			
JOODLAND	2040.0 11527.7	2040.0 (TOWS) 31527.7 (ACRES) .IA (TOWS/A)	0.0 (TONS) 41 (7.7 (ACRES) •18 (TONS/ACRE)	AISSING DATA	69073.9 (ACRES)	ACRES)		2840.0 (TONS) 41551MG DATA 69073.9 (ACRES) 31527.7 (ACRES) .18 (TONS/ACRE)	0 0 0 0 0 0 0 0
101	78.8 78.8	GROSS EROSION 21296-6	22085.3	23797.3	22278.8	16450.7	20331.9	91670.3	•
EQ.	PERCENT REDUCTION: 9.0		•	.6.3	0.0	26.2	6.7		

LAKE CRIE WASTEWATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTAICT Land Mamagement alternatives : Best Management Practice Scemarius

BASIN: LIT	BASIN: LITTLE CUTAHOGA RI	RIVER AKRON. OM	но .	NOOU	COUNTY: 19 SURR	19 SUMMITS OAFD			
Jen Dur"	EXISTING POTOGROSS ENDSION (TOMS)		SPRING PLOUÍNG 6 ONLY (TONS)	FALL PLOWING ONLY (TONS)	EDUCE SOIL SPRING FALL UINTER  0SS TO T PLOUING PLOUING COVER  ND EXISTING ONLY CROP  TONS) (TONS) (TONS)  TONS/ACRE) (TONS/ACRE)		E-0	EDUCED SOIL MEMT. 1/LAGE GADJ LAVD HISEL PLOA AREA TONS/ACRES)	EN 1512 NG 50 21 LOSS 50 7 FACTOR (ACRES) (1005/ACRES)
ACPLAND 3 46 3	124.0	128.0	124.0	155.9	124.0 155.9 128.8	6.09	130.1	69	
CROPLAND 346	191.4	191.4	185.4	233,2	191.4	1.0	194.4	5.16	00
STOPLAND	1	319.4	309.4	389.1	319.4	319.4 149.7	i	324.4 160.9 2.0	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
VINETARDS.	000	0.00	(TONS) JAP (ACRES) ARE (TDYS/ACRE)	AATER AREA GNLY )	0.0	0.0 (ACAES)			
SRASSLAND AND PASTURE	436.4 3969.7	436.4 (TONS) 3949.7(ACRES) .11 (TONS/	ACRED	JTHER LAND JSE AREA	3972.7 (ACRES)	ACRES)			
4300LAND	270.1	16.2	0-1 (7045) 41: 3-4 (ACRES) -16 (TONS/ACRE)	41SSING DATA	16327.0 (ACRES)	ACRESI	,	70-1 (7745) 41551NG JATA 16327.0 (ACRES) 53.4 (ACRES) *16 (TONS/ACRE)	8 9 9 6 9 6 9 8 9 9 9
SJAMARY TOT	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1055	3893.6	4199.0	3931.9	3281.5	3951.1	22090.3	
PERCENT REDUCTION:	0.0CT10N:	•	1.0	- 6.8	0.0	16.5	10		

LAKE ERIE WASTEWATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT LARD MANAGEMENT ALTERNATIVES : REST MANAGEMENT PRACTICE SCEVARIOS

1814: 1111	HESIN: LITTLE CUTAMOGA RIV	RIVER AKROVA	Ŧ.	NDCO	CHUNIVE 22 PORTATES ONFO	17E+ 0H12			
LAND USE	EXISTING POT-NI GROSS LA EROSION A (1708)		CDUCE SJE SPRING ISS TO T PLOJENG ID EXISTING JULY IDVS) (TJMS)	FALL PLOUTYG UNLY (TOWS)		MAXIMUM REDUCTION TILLAGE (TONS)		SOIL MGHT. BASUS LAND AREA (ACRES)	CKISTINS 531L LOSS 5 T FACTOR (ACRES)
]	.]1	• I • • • • • • • • • • • • • • • • • •	731.2	731.2 418.4		741.5 149.5 6.5 1.3		6.641 5.150	130.4
SAOPLAND S46 2	723.1	6+3.0 4.0	713.0	79A.4	723.1	145.6	3#1.5	166.7	150.7
SAGPLAND S46	52.8	52°-8	52.0	56.2	52.8	52.8	52.3	45.3	0.0
240PLAND 546 5	28.9	20.9	20.7	23.1	20.9	20.9	20.3	. 45.9	9 6 6 6
	13.0PLAND 15.50.5	1198.9	1516.9	1698.5 2.8691	1558.3	1558+5 366+6 14-2 3-0	846.7	367.5	
VINEYANDS AVD ORCH.	•••	300	(TONS) JA (ACRES) (RI (TONS/ACRE)	AATEP Area only	367.4 (ACRES)	ACRES)			
32ASSLAND And pasture	359.5 4248.2 5.89.0	359.5 (TONS) 4248.2(ACRES) .08 (TONS)	ACRES	JTHER LAND JSE AREA	1538.6 (ACRES)	ICIES)			
4330LAND	311.6 2112.6	311.6 (TONS) 2112.6 (ACRES) .15 (TONS/A	1.6 (TONS) 41: 2.6 (ACRES) -15 (TONS/ACRE)	WISSING DATA	4753.4 (ACRES)	ICRES)			
HHARY TOTA	SLAMARY TOTAL POTENTIAL GRO SUMMARY TOTAL POTENTIAL GRO STAMARY	GROSS EROSION 3191-2	3733.B	4043.7	3770.3	1774.2	2590.1	SJAMARY TOTAL POTENTIAL GROSS EROSION 3733.8 4043.7 3770.3 1774.2 2590.1 11481.5 .3 .3 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	
PERCENT REDUCTION:	1CT 1 ON:	15.4	1.0	-7.3	0.0	52.9	31.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDT LAND NAMAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: LITTLE CUTANDEA R	TLE CUYANOGA	RIVER AKRON. OH	*0 •	COUNT	COUNTY: 62 ALL IN 845 IN	NI 578 NI			
350 GW-	EXISTING POT- GROSS ENDSTON ATOMS? (TOWS/ACRE)		SPAING PLOUING G ONLY (TONS)		10000	MAXINUM REDUCTION TILLAGE (TONS)	MAINUM REDUCED REPUCTION TILLAGE: TILLAGE CHISSE PLOU (TONS) (TONS) (TONS) (TONS) (TONS)	SOIL MENT. GROUP LAND AREA (ACTES)	E4151106 531L LOSS 5 F FACTOR (ACRES) (TONS/ACRE)
STOPLAND 1	13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		618.2 855.2 5.3 4.7	974.7	6.648 6.44	209.3	521.5	521.5 105.7	
STOPLAND 2	934.4	6 34 . 4	898.4 3.6	1031.6	914.4	2.35°.3	576.0 2.5	252.6	169.7
SROPLAND S46 3	52.8	22.0	52.0	58.2	52.8	52.8	52.8	45.9	# <b>.</b>
CAOPLAND S46 5	20.9	8.8	20.7	23.1	20.9	26.4	8.00 9.00 5.00	84 * SS	
C40FL4ND	COPLAND 1857.6	1518.3	1826.3	2097.6	1857.6	518.5	1171.3	2087.6 1857.6 518.5 1171.3 528.2 4.0 3.5 1.0 2.2	
JINEYARDS And drew.		900	ITONS) LA LACRES) AR (TONS/ACRE)	JATER AREA ONLY	367.4 (ACRES)	ACRES)			
31ASSLA4D And pasture	795.9	795.9 (TDNS) 8198.0(ACRES) .10 (TONS/	ACRES	) THER LAND JSE AREA	5511.2 (ACRES)	ACRESI			
4300LAND	583.7		11.7 (TONS) 11.6.0 (ACRES) 15 (TONS/ACRE)	41SSING DATA	21080.5 (ACRES)	ACRES)			
SJARARY TOTA	LAMPRA TOTAL POTENTIAL OF CALL	- 3	8 10.5	9312.7	8634.6	5895.2	6849.4	055 EROSION   182.0	
PERCENT REDUCTION:	JCTION:	10.5	1.0	-7.1	0.0	****	21.2		

LAKE ERIE WASTEWATER MANAREYLVI STUDV U.S. ARNY CORPS OF EVGINCERS. BUFFALG DISTRICT Lang Management altermatives: Best Management Practice Scenarios

345IN: MUD	MUD BROOK	AKRON. SH		COUNTY:		19 SU"HIT. OHIO	ALL TH BASTH		
740 USE			REDUCE SOIL SPRING LOSS 13 I PLOMING AND EXISTING ONLY (TONS) (TONS/ACRE)	FALL PLOUING ONLY 4704S) (1704S)	HINTER COVER CROP (TOVS)	2 4	*		ER1871W6 \$311 LOSS > 1 FACTOR (ACRES) (1995/ACRE)
I	939.9	-	9.2 5.606	939.0 909.5 1144.4 2.7 2.6 3.3	934.0	4001	953.7 344.5	\$ * * * £	• •
CROPLAND 346 2	9.98		83.9 T.	105.6	9.0	9 *	D • 86	114.9	00
STOPLAND STG 3	301.9	3A1.9	369.9	465.4	361.9	361.9	381.3	344.5	
CAOPLAND S46 5	21.6	21.6	20.9	26.3	21.6	21.6	21.6	91.9	
SASPLAND	1429-1 1429-1 1429-1 1429-1	<u>:</u>	1429.1 1384.3 1.6 1.5	170147 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1	984.2	1445.2	1	1
TINEYARDS NVD ORCH.	0000	900	(TONS) 41 (ACRES) 44 (TONS/ACRE)	JATER AREA ONLY	6.8.9	68.9 (ACRES)			
STASSLAND AND PASTURE	9466.9	909.5 (TONS) 9460.9(ACRES) .10 (TONS)	ACRE)	JTHER LAND JSE AREA	1469.7 (ACRES)	ACRES)			
1000F 4WD	667.9 3812.9		57.8 (TONS) 41 11.9 (ACRES) -18 (TONS/ACRE)	FISSING DATA	3008.2 (ACRES)	ACRES)	•		
101 24441	3.4484 TOTAL POTENTIAL 8 5.446.7		3590.4	4023.7	3644.7	2984.1	3660.2	1055 F40513V 3590.0 4023.7 3640.7 2980.1 3660.2 17176.7 5640.7 .2 .2 .2 .2 .2 .2	
statent atouction:	uction:	0.0	1.5	-10.4	9.0	18.1	<b>S</b>		

LAKE ERIE WASTEMATER MAMAGENEUT STUDV Lamb Mamagement altermatives : Rest Mamagiment Practice Scemarios

SASIN: YELLOW CREEK	LLOW CREEK	8012U	B012UM, 0H	NPCJ	COUNTY: 17 MEDI	17 MEDINA, OHIO			
380 08V.	EXESTING POL GROSS ENDSION (TONS) (TONS/ACRE)		SPRING PLONING G ONLY (TONS)	W &	LINIER COVER CROP (TONS)	****	<b>&amp; - U</b>	SOIL MEMT. 340J° LAND AREA (ACRES)	ENISTING SOL LOSS OFFACTOR (ACRES) (TOMS/ACRE)
346 A 2	140PLAND 5134.7	2104.7	1457.2	5551.1	6.995.9	971.4	-	2602.1 520.2	505.2
213PLAND 316 2	1766.1 3.7	1539.0	3.5	1911.5	1 120.3	334.5	896.0 1.3	482.2	E
CAOPLAND	16.5	16.5	15.6	17.8	16.1	**	::	23.0	
STOPLAND STS	17.8	37.6	16.8	19.2	17.3		17.6	23.0	9.0
CROPLAND	CROPLAND 6937.1	3678.0	-1	7499,6	6719.6	1332.1	3524.3	1	
WINEYARDS A WD DRCH.	900	000	0.0 (TONS) 4 0.0 (ACRES) 1	JATÉR SREA ONLY	23.0 (	23.0 (ACRES)			
GRASSLAND And Pasture	201.4 E 1400.8	201.4 (TONS) 1408.8(ACKES) .14 (TONS)	ACREJ	JTHÉR LAND JSE AREA	574.1 (ACRES)	ACRESI			
JOOPLAND	75.6 413.3	75.6 (TONS) 413.3 (ACRES) .18 (TONS/A	15.6 (TONS) 13.3 (ACRES) .18 (TONS/ACRE)	4 ISSING DATA	780.8 (ACRES)	ACRES)	•	•	
3.144A2Y TO	3.44447 TOTAL POTENTIAL GRUSS ERUSIUM 9176.4 5040.8	GR3SS ERSSI3	b699.4	9891.9	.1	2046.8	4835.3	8355 EROSIJU 5030.8 6699.4 9891.9 8937.9 2046.8 4835.3 5651.3 3.4 2.7 2.4 .6 1.3	
SEACENT REDUCTION:	0.0	45.2	5.2	4.7.	2.6	11.1			

LAME EPRE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF EVGINEERS, BUFFALO DISTRICT LAND HANAGEMENT ALTERNATIVES : PEST "BYAZZMENT PRACTICE SCEMARIJS

	ENISTING 531L LOSS > 7 FACTOR 1 ACRES) (1045/ACRE)	0.0	6.0				0 0 0 0 0 0 0 0		
	SOLUMENTO SAOUP LAND AREA (ACATS)	137.4	6.3	206.7			165A.9 (17VS) 41SSING DATA 1354.8 (ACRES) +018.6 (ACRES) -41 (TONS/ACRE)	1,926.2	
	4EDUCED TILLAGE: CMISTL 3.34 ITONS/ACRE)	349.3	130.2	515.1				4265.4	•
11. 0410	MAYIMUM REDUCTION TILLAGE TTONS) (TONS)ACRE)	175.8	61.9	237.7	ACRES)	ACTES)	ICRESO	3958.3	:
COUNTY: 19 SUMMIT. 0410	MINTER COVER CROP (TONS)	375-1 2-7	152.1	507.2	+5.9 (ACRES)	665.9 fAC7ES)	1354.8 (ACRES)	400	•
COUNT	Fall 2104145 210459 (17045/ACRE)	65742	263.0 2.3	\$67.2 491.4 61A.1 507.2 257.7 2.5 2.4 3.0 2.5 1.1	JATER Brea July	JTHER LAND JSE AREA	4155146 DATA	*376.7	A • 9 ·
· .	SPRING FLOJING (TOKS) (TOKS)	363.4	128.0	491.4	رون	ACRE)	18.9 (1345) 415 18.6 (ACRES) .41 (TONS/ACRE)	N	:
R012U** 92		1945 1 1611 1611 1611 1611 1611 1611 1611	132.1	567.2	0.0 (TOWS) 0.0 (ACRES) 0.00 (TOWS/A	1591,3 (TONS) 9346,1(ACRES) .17 (TOUS)	1658.9 (1745) +018.6 (ACRES) -+1 (TONS/A	ACS ESCOSION	•
OU CREEK	EXISTING POT-	1.00LAND	132.1		955	1591.3 9346.1	1778.0	i žin	
BASIM: YELLOW CREEK	See Use	CAOPLAND SAG	SAS 2	CROPLAND	JIVEVARDS AVD ORCH.	34ASSLAND AVD PASTURE	4000LAND	SJARAN TOTAL POTE 921	

LAKE ERIE WASTEJATER MANAGEMENT STUUY
U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANASIMENT PRACTICE SCENARIOS

3451h: YELLOW CRECK	LOW CRECK	30120	8012UM, 3H	MUCC	COUNTY: 62 ALL IN BASIN	IN BASIN			
LAND USE	CAISTING POT- GROSS EROSION (TONS) (TONS/ACRE)	T.REDUCE SCIL SPRING- LOSS TO T PLOUING AND EXISTING ONLY 1704S) (1708S)	SPRING - PLOUING G ONLY (TONS)		30000	E & > ~ ~	3 A	SOIL MENT. SAOUP LAND AREA (ACRES)	EAISTING SOIL LOSS > T FACTOR (ACRES) (TOVS/ACRE)
STOPLAND 1		2479.7	5220.5	J	5371.0	1147.3	2000 0.00 0.00 0.00	6.533	5.05.2
CLOPLAND S46	1900.2	1671.2	1800.5	. 2012.5 3.8	1852.5	396.4 F.	1039.2	551.1	344.9
STOPLAND 4	16.5	5.9	15.6	17.8	16.1	**	**	23.0	• •
213PLAND 316	17.8	17.8	16.8	19.2	17.3	17.0		25.6	00
SAOPLAND	1	-1	7053.4	8117.7	7256.9	1569.9	-[	1263.0	
VINEYANDS AND ORCH.		000	(TONS) J.	JATER LREA ONLY	68.9 (ACRES)	ACRES)			
STASSLAND AYD PASTURE	1792.7	1792.7 (TONS) 18746.9(ACRES) .17 (TONS/	ACRE)	JTHER LAVD JSE AREA	1240.0 (ACRES)	ACRES)			
400DLAND	\$ - 50 + 60 to 50 + 60 to 50 + 60 to 50 to		14.5 (TORS) 43.9 (ACRES) -39 (TORS/ACRE)	"ISSING DATA	2135.6 (ACRES)	ACRES)			,
3,144A4 TOF	\$14484 TOFAL POTENTIAL GROSS E43517 12522.1 6839.7 .7	68055 E40517 68055 E40517 68059-7	12060.4	13283.0	12310.4	5884.7	8674.3	0SS E43SIJV 12080.4 13283.0 12310.4 5884.7 8674.7 19577.4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	
*ERCENT REDUCTION:	0.0 0.0	29.4	3.5	-6.1	1.1	53.0	30.7		

LAKE ERIE WASTEWATER NAMAGEMENT STUDY U.S. ARRY CORPS OF ENGINEERS, BUFFALO DISTRICT Land Hanagement alternatives : rest manastrent practice scenarios

BISIV: FL	SASTU: FURNACE RUN	38543	EVERETT. OH	AAC 3	COUWTY: 19 CUTANOSA, DHIO	H354. DH10			
JSD GNET	EVISTING POGROSS EROSION (TOHS) (TOMS/ACRE)	<del>-</del>	SPRING PLOJING G CULY (TONS) (TONS/AGRE)	FALL PLOWING 34LY (TONS)	LOSS TO T PLOJING PLOWING COVEN REDUCTION TILLAGE: AND EXISTING ONLY CROP TILLAGE CHISEL PLOJ (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	MAKINUM MEDUCTION TILLAGE (TONS)	REDUCES TILLAGE: CMISEL PLOA (TOMS)	SOIL MEMT. BYOUP LAVD AVEA (ACTS)	FV 1811M6 SOL LOSS V T FACTOR ( ACRES)
346 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.004 7.004 0.00	-1	95.9	1 10 10 10 10 10 10 10 10 10 10 10 10 10	1	 	1	23.0
CROPLAND S46 3	175.2	175.2 2.5	172.7	199.3	171.4	175.2	175.2	5. E	0.0
CAOPLAND	**************************************	244.1	255.8 2.8	295.2	-1	168.0	236.9	216.9 91.9	
JEVETARDS LV3 ORCH.		000	0.0 (1345) 4A) 0.0 (ACRES) 4R) 0.00 (10NS/ACRT)	JATER GREG DALY	0.0	0.0 (1C4ES)			
31ASSLAND Avo pasture	84.0 8.00.0	34.0 (TONS) 413.3(ACRES) .05 (TONS)	ACRE )	JTHER LAND JSE AREA	229.6 (ACRES)	ACRES)			
4300LAND	79.4 826.7		19.4 (TONS) 41: 16.7 (ACRES) -10 (TONS/ACRE)	418STNG DATA	298.5 (ACRES)	ACRES)		79.4 (TOMS) VISSING DATA 298.5 (ACRES) R26.7 (ACRES) .10 (TOMS/ACRE)	
5.44AAY TO	SJAMARY TOTAL POTENTIAL S			500.2	9.64.	368.9	404.2	16.90.4	
PERCENT REDUCTION	:00C110N:	:	1.0	-9.5	1.5	19.2	11.5		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERMATIVES: BEST MANACEMENT PRACTICE SCENARIUS
v: Furnace run
Everetti. Om County: 19 summit: OM12

	E E E E E E E E E E E E E E E E E E E		G Q	23.0	1					
	EDUCED S311 MEM1.	114.9	45.3	23.9	165.7				10,02.4	
	2 - ()	1.52.1	22.5 .5	37.4	1535.4				6305.7	
11. 3412	MAKINUM REDUCTION TILLAGE (10%5) (10%5)	208.7	22.5	396.5	1313.5 627.7	0.0 (ACRES)	ACRES)	ACRES)	5255.9 6237.8 6601.6 6283.3 5523.7 6305.7 10102.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	
COUNTY: 19 SUMMITS DATE	WINTER COVER CROVE (TONS) (TONS/ACKF)	4.5.1	2.5. 2.5.	845.9 36.8	1313.5	0.0	574.1 (ACRES)	1010.4 (ACRES)	6283.3	
NOCO	FALL PLOUING DNLY, (TONS) (TONS/ACRE)	317.5 431.2 542.5 445.1 2.8 3.8 4.7 3.9	27.5	1030.9	1600.9	JATEH AREA ONLY	JTHER LAVD JSE AREA	41SSING DATA	6601.6	
11. OH	EDUCE SOIL SPRING 055 TO 7 PLONING ND EXISTING ONLY (TONS) TONS/ACRE) (TONS/ACRE)	431.2	21.8 2.5	35.6	1272.4	0.0 (TONS) JAI 0.0 (ACRES) ARE 0.00 (TONS/ACRE)	ACRES	.6.5 (TONS) 419 .6.6 (ACRES)	6237.6	
EVERETT OH	<b># #</b>	317.5	22.5 .5	45.9	385.9	1) 0.0 6.0 7) 0.0	1615.6 (TONS) 5189.74ACRES) .35 (TONS/	2110.5 (TOWS) +018.6 (ACRES) -53 (TONS/A	5255.9 5255.9	
MCE RUN	EXISTING POT- GROSS EROSTON (TOWS)	445.1	22.5	845.9	1.10PLAND 1313.5		1815.6 5189.7 .35	2543.9 4038.6 636.	SJ44RAY TOTAL POTENTIAL GAUSS ERUSING 62055 P. 6283.3 6255.9 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	CTION:
34514: FURBACE RUB		30PLAND S46 1	CROPLAND S46 3	SHE 10	CAOPLAND	VINEYARDS AND ORCH.	STASSLAND AND PASTURE	4300L AND	5J44A2Y TOTA	PERCENT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STULY U.S. ARMY CORPS OF ENGINEERS. RUFFALD DISTRICT Land management alternatives: Mest Management Practice scevarics

	FRISTING	P = 0	<b>0</b> 0	20.00				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	\$31L MGMT. 640J° LAVD AREA (ACRES)	137.9	110.3	23.6	275.6			21P9.8 (TONS) YISSING DATA 1308.9 (ACRES) 4845.3 (ACRES) 4845.3 (ACRES) 485.3 (ACRES)	12032.9	
	TILLAGE: CHISEL PLOA (TONS)	8 9 3 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 °	197.7	37.4	1550.4		•		6759 . 5	•
Alath Al	COVER REDUCTION TILLAGE: CRAP TILLAGE CHISEL PLO: (TDNS) (TDNS) (TDNS) (TONS/ACRE) (TONS/ACRE)	221.5	197.7	396.5	1 815.7 3.0	0.0 (ACRES)	ACRESI	ACRESI	5934.1	12.5
COUNTY: 62 ALL IN GARIN	WINTER COVER (R)P (T)VS) (TOVS/ACRF)	527.6 3.8	193.9	845.9 36.P	630.0 1528.2 1896.2 1567.4 A15.7 1550.4 2.3 5.5 6.9 5.7 5.7 5.5	0.0	803.7 (ACRES)	1308.9 (ACRES)	8.177.8 6.	
INDLE		634.5	224.8	1000 1000 1000	1896.2	AATER IREA DULY	JTHER LAND JSE AREA	MISSING DATA	7146.5	-5-3
1. 34	FOUCE STATE SPRING ISS TO T PLONING TO EXISTING THEY TONS) (1015)	346.4 514.5 2.4 5.7	194.5	819.4 35.6	1528.2	(TONS) JATER (ACRES) JREA ( (TONS/ACRE)	ACRE)	(TONS) 4 IS (ACRES) (TONS/ACRE)	6733.6	
EVERETT. 24			197.7	45.4 2.0	630.0	0.00	1849.6 (TONS) 5603.1(ACPES) .33 (TONS)	21P9.8 (TONS) 4845.3 (ACRES) .45 (TONS/A	5725.7 5725.7	15.6
ACE RUN	ENISTING POT. FRUSION (TONS) (TONS)	.I	197.7	36.8	1	0000	1849.6 5603.1	2623.5 4845.5 .54	SJYMARY TOTAL POTENTIAL GROSS EROSION 5 JYMARY TOTAL POTENTIAL GROSS EROSION 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	CT10N: 0.0
TASIN: FURNACE RUN	. AND USE	S43 1	310PLAND 3	STOPLAND STG 10	CAOPLAND	VIVEYARDS AND ORCH.	34ASSLAND And Pasture	4000LAND	SJAMARY TOTA	SERCENT REDUCTION:

LAKE ERIE MASTEMATER MAMABERTAT STULT LAND MAMABERENT ALTERNATIVES : BEST MANAGIMENT PRACTICE SCENARICS

BASIN: PRA	BASIN: PRANDVAIVE CREEK	JAITE - 34	<b>*</b> 0	TANCS	COUNTY: 18 CUYANDSA. DATO	H354. 3419			
AND USE	EXISTING POT GROSS EROSION (TONS) (TONS/ACRE)	EXISTING POT-PEDUCE SOLL SPRING 6805S LOSS TO 7 PLOWING ENOSION AND EXISTING ONLY (TOMS) (TOMS) (TOMS)	SPRING PLOWING DRLY (TONS) (TONS)	EDUCE SOIL SPRING FALL   WINTER   WATHUM   REDUCED	#19168 COVER CPOP (TOMS)	### IMUM *EGUCTION TILLAGE (TO%S) (TONS/ACRE)	AEDUCED TILLAGE: CMISEL PLD4 (TOMS)	AND USE EXISTING POT.PEDUCE SOIL SPRING FALL WINTER MAXIMUM REDUCED SOIL MGMT.  GROSS LOSS TO 7 PLOWING PLOWING COVER AEGOCTION TILLAGE: SAOJP LAND EROSION AND EXISTING DALY OALY CPOP TILLAGE CHISEL PLOM AREA (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (ACRES) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE) (TOMS/ACRE)	E 6 13 7 1 MG 53 1L LOSS 5 T F A CT 2 M 6 C A C R E S 1 6 C A C R E S 1
140PLAM0		1 0 0	90	0.0	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.0	0.9	40PLAND 6.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	***************************************
AINETARDS AND ORCH.	936 **0 * 0 * 0	0.0 (70%5) 0.0 (ACRES) 0.00 (70%5/A	1	1	3.	G.L. (4C#ES)			
SAASSLAND AND PASTURE		3.5 (TOMS) 45.9(ACRES) 406 (TOMS/	() H) H	JTHER LAND JSE AKEA	(53604) 6.54	(SEE24			
430DLAND	50 64 6 64 6 64 6 64 6 64 6 64 6 64 6 64	10.3 (TONS) +5.9 (ACRES) -22 (TONS/A	0.3 (70NS) 41S 5.9 (ACRES) .22 (TONS/ACPE)	TISSING DATA	GEST CACAES	ACRES)			
SJUMBAY TOT	SJMMANY TOTAL POTENTIAL GROSS EAGSTON 24.2 24.2 25.2 24.2	640SS EADSIDA 24.2	2.5	24.2	2.5	2.2	24.2	JUMBARY TOTAL POTEMTIAL GROSS EAGSTON JAMBARY TOTAL POTEMTIAL GROSS EAGSTON 20,2 20,2 20,2 20,2 20,2 20,2 20,2 20,2	
PERCENT REDUCTION:	UCTION: 0.0	9.9	0.0	0	9.0	6	0.0		

LAKE EPIE VASTEVATER MAMAGEMENT STUDY LAND MANAGEMENT ALTERVATIVES : REST MAYAGEMENT PRACTICE SCEMARIUS

BASIN: ARA	SASIN: APANDYNINE CREEK	K JAITE, OH	10.	COUNT	COUNTY: 19 SUMMIT. CHIO	IT. CH10	•		
THO OSE	EXISTING POGROSS EROSION (TONS)	GROSS LOSS TO T PLONING GROSS LOSS TO T PLONING GROSS ONLY (TONS) (TONS) (TONS) (TONS) (TONS) (TONS)	. ν <del>Γ</del> ΄ – ~ .	we	UINTER COVER (ROVE (TONS)	MAKIMUM REDUCTION TILLAGE (TOYS) (TONS/ACRE)	<b>*</b> ► U ~ ~ •	EDUCED SOIL MGWT. Jilber: Brode Land MISCL PLOW AREA TONS/ACRE?	EMISTING SOIL LOSS > 7 FACTOR (TOMS/ACRE)
S46 1	1.9	7 * * * * * * * * * * * * * * * * * * *	6.00 8.00 8.00 8.00	54.5	F - 4	-	-	23.3	0.0
240PLAND 2	126.4	126.4	122.5	154.1	126.4 1.8	59.5 9.9	129.4	6.8.3	• • •
CROPLAND SMG 3	88.4 1.3	8. 8. M. B.	85.6 1.2	107.7	88.4 1.3	10.4	1.3	68.9	0.0
CLOPLAND	40PLAND 259.5	259.5	251.4	316.3	259.5	168.3	168.7 262.2 1.0 1.5	160.9	**************************************
VINEYARDS And orch.	0000	0.00	(TONS) JAY (ACRES) ARI (TONS/ACRE)	JATER Area only	0.0	0.0 (ACRES)			
STASSLAND AND PASTURE	717.3	717.3 (TUNS) 6659.4(ACRES) -11 (TONS)	ACRE)	JTHER LAND JSS AREA	2670.4 (ACRES)	ICRES)			
JOOPLAND	1203.2 4615.7 •26	1122.4 (TONS) 4615.7 (ACRES) .24 (TONS/A	(TONS) 41: (ACRES) (TONS/ACRE)	MISSING DATA	2AD1.6 (ACRES)	ACRES)	•		
UNHARY TOTA	AL POTENTIAL 2714.1	SUMMARY TOTAL POTENTIAL GROSS EROSION 2714.1 2714.1 2.2	2704.0	2784-9	2714.1	2601.0	2717.4	SUMMARY TOTAL POTENTIAL GROSS FROSION 2700.0 2700.0 2700.0 2717.0 10237.5 .2 .2 .2 .2 .2 .2 .2 .2 .2	
PERCENT REDUCTION:	UCTION:	0.0	•	-2.6	0.0		:		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS 3F EYSIVEERS. BUFFALO DISTRICT Land Management alternatives: best management practice scenarios

LAND USE EXISTING POT-RE GROSS LD GROSS	#3454[	DOUCE SUIL SPRING FALL  10 EXISTING DALY ONNS  ONNS  110 (TONS)  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.4  1126.5  1126.4  1126.5  1126.4  1126.5  1126.4  1126.5  1126.6	FALL (1008) (100	1146 COVER REDUCT 11 CROP 11LLA 108.3 CROS ACRE 1 (108.5 2.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	ACRE O (ACRES)  ACRE O (10NS)  ACRE	REDUCED SOLL TILLAGE: SADDA CHISCL PLOU AREA (TONS) (ACRE	2011 MGM1. 53.012 LAND 11 COU AREA 53.0 (ACRES) 53.4C.16.1
.26 III SJAMAAY TOTAL POTENTIAL GR	.26 (T) -2. 62. 62. 62. 62. 62. 62. 62. 62. 62. 6	110NS/ACKE)	-I	2740-1	2626.7	2743.4	.24 (TONSALKE) DSS ENDSIDA 2786.1 2730.0 2811.0 2740.1 2626.7 2743.4 14398.2
2740.1 .2 PERCENT REDUCTION:	2740.1			7	2	. 2	
	0.0 0.0	•	-2.6	0.0	-	•	

LAKE ERIE WASTEWATER MANAGEMENT STUDY . U.S. ARMY CORPS OF ENGINEERS. RUFFALO DISTRICT Land Management Alternatives : Dest Management Practice Scenarios

	EXISTING SOJE LOSS > T FACTOR (ACRES) (TOUS/ACRE)	23.0	00	• •	23.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0		
	SOIL MGMI. SIDJE LAVO AAEA (ACIES)	45.3	23.0	137.9	8 ° 8 ° 8	223.1			2249.3 (TOMS) 41551MG DATA 2112.6 (ACRES) 3766.0 (ACRES) 6.0 (TOMS/ACRE)	7976.5	
ALL IN BASIN	TILLAGE: SECONDER CHISEL PLOA A: (TOWS)	-	A	191.9	854.1	1235.3			-	5285.3	21.1
1364. PHTO	MAXIMUM AEDUCTION TILLAGE (TONS/ACRE)	155.2 291.7 336.7 289.5 45.0 3.4 6.4 7.3 6.3 1.0	12.5	191.8	265.0	514.3	0.0 (ACRES)	4CRES)	ACRESI	4298.7	36.4
COUNTY: 19 CUYAH364, PHIO	WINTER COVER CROP (1345)	289.5	8.00 8.00 8.00	197.6	1703.6	2261.2	0.0	3513.4 (4CRES)	2112,6 (ACRES)	8.683.8	1.0
1000	FALL PLOUIVG ONLY (1708)	356.7	93.5	214.2	1981.2	2529.7	JATER AREA ONLY	JTHER LAND JSF 4REA	ISSING DATA	7189.4	-6.4
PRESENTERS 34	EDUCE SCIL SPRING ISS TO T PLOWING ID EXISTING ONLY (13NS) (13NS)	291.7	A1.1	169.0	1716.2	99.2 2278.0	ACRE)	ACRES	6.0 (ACRES) 41S 6.0 (ACRES) 6.0 (TONS/ACRE)	6708.8	٠,
8 H C 3 K B	**************************************		#2. 3.6	191.8	6.8 0.0		0.0 (TOMS) 0.0 (ACRES 0.00 (TOMS)	\$62.1 (TONS) 1768.2(ACRES) .22 (TONS/	2249.5 (TOMS) 3766.0 (ACRES) .60 (TOMS/A	ROSS E43513N 4276-6	36.7
PEUA CREEK	EXISTING POT.REDUCE SCIL GROSS TO T ERGSION AND EXISTING (TONS) (TONS/ACRE) (TONS/ACRE)	]	82.3 3.6	191.8	1741.4	1.13PLAND 2311.4 113PLAND 18-1	000	382.1 1766.2 -22	3766.0	SJAWARY TOTAL POTENTIAL GROSS EADSIDN SJAWARY TOTAL POTENTIAL GROSS EADSID GROSS EADS	C710N:
SASIN: CHIPPEUA CREEK	LAMD USE	130PLAND S43	346 23	310PLAND 343	CROPLAND S46 10	113PLAN0	VINEYARDS AVJ ORCH.	GRASSLAND Avo pasture	4300LAND	3 J4444 TOTAL	PERCENT REDUCTION:

LAKE ERIE WASTEWATER MAVAGENEYT STJOY

LAND MAMAGENEMT ALTERNATIVES : BEST MAMAGEMENT PRACTICE SCENARIOS

34 SIN: 110	BASIN: TINKERS CREEK	BE DF OF	BEDFORU. OH	COUNT	COUNTY: 18 CUYANDGA. DHIO	456A. DHIO			
-440 USE	EXISTING POTABLE GROSS LC EROSION A CTONS) CTONS) CTONS) CTONS) CTONS/ACRE)	T. AEDUCE SOIL SPRING LOSS TO T PLONIN AND EXISTING ONLY (TONS) (TONS)	SPRING PLDVING G ONLY (TONS)	CDUCE SOIL SPRING FALL BINTER HAXIMUM REDUCED ISS TO T PLOWING PLOWING COVER REDUCTION TILLAGE CHISEL PLOW (DRS) (TONS) (	COVER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)		MENT.	EXISTING S)11 _05S > 1 FACTOR (ACRES)
CAOPLAND 346 1	963.2 7.9	-I	690.1	413.3 690.1 1027.5 3.6 7.8 9.0	883.6 7.7	137.4	1	T	114.8
SAS 2	223.3	223.3	220.1	254.0	216.4	34.0	110.9	334.0	90
CROPLAND 346 3	862.8	862.8 2.2	850.5	391.6 2.5	844.0 2.2	862.8 2.2	662.9	390.4	
STOPLAND			1960.5	2253.1	1946.0	1034.2	1417.3	1499.4 1960.5 2253.1 1946.0 1034.2 1417.3 520.3 2.4 3.2 3.7 3.1 1.7 2.3	
VINEYARDS VVD ORCH.		0.0 (70NS) 0.0 (ACRES 0.00 (73NS)	, ICRE)	JATER AREA ONLY	275.6 (ACRES)	ACRES)			
SAASSLAND And pasture	1278.0 £ 3329.7	1278-0 (TONS) 3329-7(ACRES) -38 (TONS)	ACREJ	JTHER LAND JSE AREA	3444.5 (ACRES)	ACRES)			
433BLAND	1947.2 5626.0	1947-2 (TONS) 5626-0 (ACRES) -35 (TONS/A	17.2 (TONS) 11 26.0 (ACRES) .35 (TONS/ACRE)	41SSING DATA	12790.6 (ACRES)	ACRES)			
SJAMARY TO	SJAMARY TOTAL POTENTIAL GRI	-1	12112.4	12819.2	12078.6	9948.8	10843.1	SJAMARY TOTAL POTENTIAL GROSS EROSION SJAMARY TOTAL POTENTIAL GROSS EROSION 12112-4 12819-2 12678-6 9948-8 1843-1 22366-3 6 -5 -6 -5 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6	
PERCENT REDUCTION:	DUCTION:	4.6	9.	-5.3	60	18.3	11.3		

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U.S. ARMY CORPS OF ENGINCERS, BUFFALO DISTRICT	
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CORPS	SCENAR
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101	LAND MANAGERENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS
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MANAGEP	HATIVES
168	LTER
LAKE ERIE WASTEWATER MAMAGEMENT STUDY	EPENT A
ERIE	MANAG
L AK E	1440

	ARTHUM REDUCED \$31L MENT. ERISTING ENCITON TILLAGE: 640UP LAVD \$31L LOSS TILLAGE TOWN ATER > 7 FACTOR 10.55 (10.55) (10.55) (10.55) (10.55) (10.55)		96.9 206.7 0.0 1.0 0.0	551.6 185.7 0.0 1.4 0.0	11.5 45.3 0.0	.9 23.0 23.0 .15.1	1152.3 597.1				16694.5	
	REDUCED TILLAGE: CMISEL PLOW (TOWS)	330.2	-	Ñ		355.9	Ī			•	3202.7	
MIT. OHID			6.06	251.8	11.6	163.3	1138.7 673.7	0.0 (ACRES)	1906.0 (ACRES)	1997.6 (ACRES)	2659.0	
CUUNTY: 19 SUMMIT. OMID		333.0	193.9	251.8	11.6	348.4	1138.7		1906.0	1997.8	3187.2	
COUNT	FALL PLOUING ONLY (TOWS)	405.8 2.9	236.3	386.9	14.2	424.6	1387.8 2.5	JATER JREG ONLY	JTHER LAND JSE AREA	MISSING DATA	3470.2	
но • он	ن ال		187.9	243.9	11.3	337.5	1103.2	1	(383)	18.6 (TOMS) 419 16.8 (ACRES) 16 (TOMS/ACRE)	3146.9	
BEDFORD. OH		333.0 322.5	193.9	251.P	11.6	68.9 3.0	859.2 1.4	0.0 (TOMS) 0.0 (ACRES) 0.00 (TOMS/A	1836.5 (TONS) 10172.84ACRES) +10 (TOVS/	630.6 (TONS) 3926.8 (ACRES) 116 (TONS/4)	180SS EROSION 2869.7	
ERS CREEK	EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO T PLOWIN ERGSION AND EXISTING CHLY TONS) (TONS) (TONS) (TONS)	333.0	193.9	251.8	23.6 5.5 5.5	348.4		000 000 000	1036.5 10172.8	638.6 3926.8	3.4448Y TOTAL POTENTIAL GROSS EROSION 3.847.2 2869.7	
SASIV: TINKERS CREEK	San ove:	SAS 1	CROPLAND S46 2	STOPLAND 3	CROPLAND S46 5	SROPLAND 343 10	CROPLAND	VINEYARDS	348SLAND LUD PASTURE	MODDLAND	TELOP AND TO ME	

LAKE ERIE WASIEWATER MAMBEEMENT STUDY Land Mambeement Altermatives: Best Managiment practice scenarics

LAND MA			100	INUCE	COUNTY: 21 GEAUGA. 3HIG	A. 3HIG			
BASIN: TINKERS CREEK	KERS CREEK	65040	BEDFJRD* CT		6			SOIL MEMI.	Ex 15 11 NG
LAND USE	EXISTING POT	GRISTING POI-REDUCE SOIL SPRING GROSS LOSS TO 7 PLOUING GROSS AND FXISTING ONLY	SPRING PLOUING GONLY	FALL PLO41%6 ONLY		*	TILLAGE: 640UP CMISEL PLOM AREA (TOMS) (ACRES	GROUP LAWD AREA (ACRES)	ACRES
	EROSION (TOMS) (TOMS/ACRE)	(1045)	EROSION	(TONS) (TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACE)	(TONS) (T	
10PLAND		0.0	0.0	0:0	9:0	0.0			
JINEVARDS AVD ORCH.		000	G.O (TOYS) JATER G.O (ACRES) AREA O.BO (TOWS/ACRE)	JATER GREA ONLY	0.0	0.0 (ACKES)			
SRASSLAND AND PASTURE		91.900	3.4 (TONS) 319 91.9(ACRES) JSE .04 (TONS/ACRE)	STHER LAND JSE AREA	68.9 (ACRES)	ACRES)			
4000LAND	12.5	12.5	12.5 (TONS) 41. 160.7 (ACRES) .08 (TONS/ACRE)	41SSING DATA	6.89	68.9 (ACRES)	1-	4000LAWO 12.5 12.5 (TONS) 41SSIMG DATA 68.9 (ACRES) 168.7 168.7 (ACRES) 08 08 (TONS/ACRE)	
SUMMARY TO	SUMMARY TOTAL POTENTIAL GROSS EROSION 20-2 20-2 1	GROSS FROST	ON 20.2	20.2	20.2	20.2	20.2	321.5	
PEACENT REDUCTION:	-		9.	9.0	0.0	••	e :		

LACE ERIE MASTEKATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT SCENARIOS

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HEIN: TINKERS CAEEK	: TINKERS CREEK BEDFORD. OH COUNTY: 22 PO	BEDFO	8E DF 04D+ 0H	MAOO	COUNTY: 22 PORTAGE, OHIO	AGE . 0HIO				
350 ORY-	EXISTING POL GAOSS FROSION (TONS)	•	SPRING PLDMING CONLY (TONS/ACRE)	MEDUCE SOIL SPRING FALL UINTER LOSS TO T PLOUING COVER AND EXISTING ONLY CROP (TONS) (TONS) (TONS) (TONS) ATOMS/ACRE) (TONS/ACRE)	UINTER COVER CROP (TONS)		MEDUCION TILLAGE: TILLAGE CHISEL PLOW (100%) (100%)			
346 1	46 1 8 8 5	_	-1 -2502.4 R.4	2.8 A.4 9.4		2537-7 511-1 8-5 1-7	5 * 6 * 5 * 1	299.5	8.46. 8.46.	in in
240PLAND 346 2	22.0	22.0	21.7	24.3	22.0	• "	11.5	23.0	• •	
CLOPLAND 546 3	1059.5	879.5	1044.7	1169.8 3.6	1059.5	1059.5	1059.5	321.5	275.6	٠,
240PLAND 346 5	6.48 8.4	9.46	33.6	37.5	0 • 6 ti	0.48 8.	8. B	6.09		
CROPLAND 346 18	2664.6	137.8	2627.6 38.1	2942.2	2664.6 38.7	536.6	1486.5	68.3	54.4	
CROPLAND	ROPLAND 6317.8 1908.0 7230.0 5975.9 5317.6 2145.6 3958.7	1908.0	-1	-1	-1	2145.6	3956.7	7.0.4	1.	1
VINEVAROS AVD DRCH.	000	000	6.0 (TONS) JA 6.0 (ACPES) AR 0.00 (TONS/ACRE)	JATER AREA ONLY	114.8 (ACRES)	ACRES)				
SRASSLAND 440 PASTURE	1203.9	1203.# (TO45) 9782.4(ACAES) .12 (TONS/	CEC	JTHER LAND JSE AREA	1079.3 (ACRES)	ACRES)				
JOODLAND	567.9 2755.6			VISSING DATA	2296.3 (AERES)	ACRES)				
SCHRARY TOT	SUMMARY TOTAL POTENTIAL 9-84-2	<u>.</u> 5	4391.3	10255.9	9484.2	4592.7	6.591.9	1055 EROSION 9301.3 10255.9 9484.2 4592.7 6591.9 15615.1		
SERCENT REDUCTION:	0.0	34.6	1:1	-8-1	0.0	91.6	30.5			

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. AANY CORPS OF ENSINCERS. BUFFALO DISTALCT Land management altennatives : best management practice scenarios

SASIN: TIMERS CREEK	HERS CREEK	95050	SEDFORD. ON	COURT	COUNTY: 62 ALL IN BASIN	IN BASIN			
35n gr.	EXISTING PO GROSS EROSION (TOMS) (TOMS/ACRE)	-REDUCE SOTI LOSS TO T AND EXISTIC (TONS)	SPRING PLOWING G ONLY (TONS)	L &	10000	7 2	*-0	SOIL NENT SADUP LAY AREA (ACRES)	E (1511M6 5) 1L LOSS 5) 7 FACTOR (ACRES) (TOWS/ACRE)
STE 3	3773.4	1573.6	371541	-I	3754.2	4 4 0 8 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2122-5	551+1	2 % E &
210FLAND 345	439.2	1.3	129.6	514.5 1.5	434.3	129.5	318.6	344.5	• • •
SAG 3	2174.1	1994.1	2139.8	2458.3	2155.3	2174.1	2174.1	9.55.6	3.75.6
STOPLAND SM6	48.7	r. 6	•••	51.9	~ * * *	4547	1.5.	114.8	
STOPLAND STG 10	3613.0	206.7	2965.1 32.3	3566.7	3013.0	6,94.9	1760-1	91.2	32.8
CAOPLAND		4258.7 2.1	9293.6	9293.6 10626.7 9402.5 4.7 5.3 4.7	9402.5		6421.3	3853.6 6421.3 3997.9	
VINEVARDS And orch.		0 0 0	0.0 (TONS) JA 8.0 (ACRES) AR .00 (TONS/ACRE)	JATER AREA OMLY J	390.4 (ACRES)	ACR ES )			
JAASSLAND AND PASTURE	3521.8 23376.7	3521.8 (TOMS) 23376.7[ACRES) .15 (TOMS)	ACRE)	JTHER LAND JSE AREA	6498.7 (ACRES)	ACRES)			
4300LAMD	3156.2		9.1 (ACRES) -25 (TOMS/ACRE)	*ISSING DATA	17153.7 (ACRES)	ACRESI			,
514444 TOTA	STATES TOTAL POTENTIAL 6	~ <b>.</b>	23214.1	25151.4	23372.3	15308.2	19039.1	ROSS EROSION 23214.1 25151.4 23172.3 15308.2 19039.4 54997.4 .5	
PERCENT REDUCTION:	UCTION: 0.0	32.2	••	-7.3		34.7	18.9		

LAKE ERIE WASTEWATER WANAGEMENT STUDY
U.S. ARMY CORPS OF ENGINEERS, RUFFALO DISTRICT
LAND MANAGEMENT ALTFANATIVES : PEST MANAS; WENT PRACTICE SCEWARIOS

SASIN: BIG CREEK	CREEK	CLEVE	CLEVELAND. OH	COUNT	COUNTY: 18 CUYAMOGA. ONTO	406A. OHTO	ALL IN BASTH		
JSD ONT	EXISTING POSPOSS EROSION (TONS)	ING POTAMEDUCE SOIL SPRING FALL WINTER MAXIMUM REDUCED TO LOSS TO T PLOMING PRODUCED TILLAGE: POPUL COVER REDUCTION TILLAGE: POPUL CONSTITUTE CHISTLE POPUL CONSTITUTE CHISTLE POPUL CONSTITUTE CHISTLE POPUL CONSTITUTE CHISTLE POPUL CONSTRUCTIONS (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	SPRING PLOBING 13 ONLY (TONS)	FALL ONLY (TONS) (TONS/ACQE)	MINTER COVER CROP (TONS)	MAKINUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED SDIL TILLAGE: 313JP CMISEL P.34 44EA (TOMS) (ACRE	SOIL MGMT. 3433# LAKO 4454 (AC45S)	EK1871M6 S)1L LDSS > T FACTOR (ACCES) (TOMS/ACRE)
CROPLAND	6.0	0.0	0.0	0 · 0	0.0	0.0	0.0	ROPLANO 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	
JINETARDS AND ORCH.		8.0 (10MS) 8.0 (ACRES 8.00 (10MS)	ACRES	JATER IREA ONLY	0.0	0.0 (ACRES)			
314SSLAND AND PASTURE	522.2 1860.0	\$22.2 (TONS) 1860.0(ACRES) .28 (TOUS)	ICRES	JER LAND Jerarea	2112.6 (ACRES)	ACRESI			
WOODEAND		1483.0 (ACRES)	•5•3 (10%5) 418 83•0 (ACRES) ••5 (TOWS/ACRE)	4 ISSING DATA	18154.1 (ACRES)	ACRES)	•		
3.14444 TOTAL POT	-I	LINEARY TOTAL POTENTIAL GAOSS EAUSING TABLE POTENTIAL GAOSS TABLE	8008.7	8003.7	# # 000 W	7.500R	8005.7	MITAL GAUSS E435134 8003.7 8003.7 8003.7 8003.7 8003.7 21907.1	
PERCENT REDUCTION:	_	0:0	0.0	0.0	9.0	0.0	0.0		

LAKE ERIE WASTEWATER MANAGEMENT STUDY Land management alternatives : Best management practice scenarios

BASIN: EUCLTO CREEK	LID CREEK	EUCLID. OH	0. OH	COUN	COUNTY: 18 CUTAH3GA, DHIO	H36A. DHIO			
LAND USE	EXISTING POT GROSS EROSION (TONS) (TONS/ACRE)	EXISTING POTAREDUCE SOIL SPRING GROSS  LOSS TO T PLOUIN FROSIGN  AND EXISTING ONLY  (TOMS)  (TOMS)  (TOMS/ACRE)  (TOMS/ACRE)	SPRING PLOUING CONLY (TONS) ACRE?	REDUCE SOIL SPRING FALL VINTER MAXIMUM REDUCED LOSS TO T PLANING FACULING COVER REDUCTION TILLAGE: CROP TILLAGE CHISELPLOM (TONS)	VINTER COVER CROP (TONS) (TONS)	MAXINUM REDUCTION FILLAGE (TONS)	REDUCED TILLAGE: CMISEL PLOM (TONS) (TONS/ACRE)	SDIL MENT. GROUP LAND ANEA (ACRES)	E4157146 5314 L055 5 7 F4CTOR (1008/ACRE)
145 LAND 3	68.9 6.89	6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	67.9	4.87	67.4	68.9	£ . 69	140PLANO 68.9 68.9 67.9 78.4 67.4 68.9 69.7 91.9	• •
1	6.89	6,89	67.9	78.4	6.1.9	66.9	68.3	10PLAND 68.9 68.9 67.9 78.4 67.9 68.9 68.9 91.9 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	
ILVEYARDS NUJ ORCH •		0.0 (TOMS) 0.0 (ACRES 0.00 (TOMS/	ACREJ	AATER Area orly	9.0	0.6 (ACRES)			
SRASSLAND And pasture	625.3 987.4	625-3 (TONS) 987-4(ACRES) 63 (TONS/	ACRE)	JTHER LAND JSE AREA	2434.1 (ACRES)	ACRESI			
JOOFLAND	471.5 1760.2	471.5 (TONS) 1768.2 (ACRES) -27 (TONS/A	1.5 (TONS) 41 .8.2 (ACRES) .27 (TONS/ACRE)	4 ISSING DATA	7922.4 (ACRES)	ACRES)			
JANARY TOT	LITTER TOTAL POTENTIAL GROSS EROSION PADDR 9-400-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-	GROSS EROSIO!	4002.2	6.44	4403.3	4188.9	4.69.3	JAMARY TOTAL POTENTIAL GROSS EROSION JAMARY TOTAL POTENTIAL GROSS EROSION A488.9 4408.9 4405.2 4444.9 4403.3 4408.9 4409.9 10769.9	
SERCENT REDUCTION:	0.0 0.0	0.0		<b>20</b>	7.	0.0	0.		

LANE ERIE VASTEVATER NANAGENENT STUDY LAND MANAGEMENT ALTERNATIVES : BEST MANAGENENT PRACTICE SCYJARIOS

SASIV: EUCLID CR	LID CREEK	FUCLID. 3H	. JH	Anco	COUNTY: 20 LAKE. DHID	• 3HID			
JSD DSE			SPAING PLOAING CONLY (TONS/AFRE)		A INTER COVER CROP (TONS)		# - U	SDIL MGWT. 6433° LAVD A4EA (ACC:S)	CUISTING SOIL LOSS OF FACTOR (ACRES) (TOMS/ACRE)
S46 2	145.1	107.8 165.4	143.4		16 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	**************************************	-	62.3 45.3	62.6
340PLAND S	809 8.50	* #2.2 3.0	501.7	687.2	58 3. 9 3. 6	80 · ED · E	609.8 3.4	150.7	160.7
CHOPLAND SHG 5	4.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4. 4.	4. 6.	21.9	17.8	3.6	19.5	23.8	0 0
]10PLAND 7	772.5	6.38°5 2°8	763.5	972.0 3.8	-1	645.2	690.2	229.5	]
FINEYARDS AND ORCH.	9 9	0.0 (70NS) 0.0 (ACRES	100	JATER AREA ONLY	0.0	D.O (ACRES)			
34ASSLAND 4vd pasture	114.8	6.7 (TONS) 114.8(ACRES) .06 (TONS)	ACRT)	JTHER LAND JSE AREA	597.1 (ACRES)	ACRES)			
4300LAND	40.8 505.2 61.2	48-8 (TOUS) 505-2 (ACRES) -10 (TONS)	(TOVS) 418 (ACRES) (TONS/ACRE)	41SSIVG DATA	91.9 (ACRES)	ACRES			
	NT1AL 17.6	GROSS E40SION 769.2	467.5	1027.8	. AR2.5	776.5	A26.4	ROSS EQUSION 467.6 1027.8 RA2.5 776.5 A26.4 941.5 769.2 .8 3.0 1.1 .9 .9 .9 .9	1
·talen! Meducijum:	0.0	16.2	1.1	-12.0	3.8	15.4	1.1		

LANE ERIE WASTEMATER NANMBENEWF STUDY Land Manmeenent altenatives: Best Nanmaëment practice scenatics

3451Y: EUCLID CREEK	LID CREEK	EUCLIO, 3M	₩С •С	NUC:	COUNTY: 62 ALL IN BASIN	11 8451W			
LAND USE	EXISTING POT GROSS EROSION (TONS)	EXISTIME POT-REDUCE SOIL SPRING SROSS COST PLOWING FROSTON AND EXISTIME ONLY (TONS) (TONS) (TONS/ACRE)	SPRING PLOUING 5 ONLY (TONS)	FALL PLOUING ONLY (TOMS)		E S	& P U U U .	EDUCED SOLL MENT. ILLAGE: 640UP LAND HISEL PLOM AREA TONS) (ACCES)	ER1572M6 531L LOSS > 1 FACTOR (ACRES) (1045/ACRE)
SAPLAND 2	145.1		143.4	137.8 143.4 163.8	139.2	6. F.	_	6.84	95.9
CROPLAND SHE 3	677.8	551.1	669.6	765.6	651.3	677.8	677.3	252.6	160.7
S 10PLAND S 16	9.81	3.8	1.81	21.0	17.6	e .		23.0	9 8 9 8
340PLAND	1	707.5	831.4	841.5 707.5 831.4 950.4 2.6 2.2 2.6 3.0	-1	714.2	759.2	759.2 321.5	
JINEYARDS AND ORCH.		9 0 0	0.0 (TONS) 4.0 (ACRES) AI	JATER Area only	0.0	0.0 (AURES)			
JRASSLAND 410 pasture	632.0 1102.2	632.0 (TONS) 1182.2(ACRES) .57 (TONS/	ACRE)	JTHER LAND 1SE AREA	3031.2 (ACRES)	ACRESI			
400DLAMD	528.2 2273.4	520.2 (TONS) 2273.4 (ACRES) .23 (TONS/A	20.2 (TOMS) 1 73.4 (ACRES) .23 (TOMS/ACRE)	41SSING DATA	8014.2 (ACRES)	ACRES			3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SJRHARY TO'	SJAHARY TOTAL POTENTIAL GROSS EROSION 6318-0 5891.0	6005 ER05101	N 6283.4	9.0999	6210.3	5912.2	6054.7		
PERCENT REDUCTION:	•	6.7	10	2.	1.7	<b>6</b>	:		

LARE ERIE WASTEDATER MANAGEMENT STUDY U.S. ARMY COAPS OF ENGINEERS. RUFFALD DISTRICT Land Management alternatives: Best Wanagement Practice Scenapius

	E	4.50 9.6	9						[		
	SOIL WENT. STOUP LAND ATEA FREESS	166.7	229.5		1.60.7				12-8 4712-8 (TONS) 41SSING DATA 11986-9 (ACRES) 31-3 9231-3 (ACRES) -51 (TONS/ACRE)	25371.3	
	A = D +	643.5	173.9	2.9						13811.0	10.3
H364. 9MIO	FALL JINTER 4A/19U4 PLOULVG COVER REDUCTION ONLY CROP 11LLAGE (10045) (10045) (1005/ACRE)	199.3	53.6	477.7 2.0	52.1	547.8 1184.7 1755.2 2.6 1.2 1.2	I ACRES)	(ACRES)	(ACRES)	12752.3	17.1
COUNTY: IN CUYANGGA. OMFO	JIVIER COVER CROP (TOYS) (TOYS)	1281.0	357.2	858.6 2.0	51.0	2547.R 2.6	252.6 (ACRES)	9116.5 (ACRES)	11986.9 (ACRES)	15283.8	•
Cauco	FALL PLOWING OWLY (TOYS) (TONS/ACRE)	1489.P	15.4	998.5	59.3	2963.0	AATER AREA ONLY	JHER LAND JSE 49EA	41551NG DATA	16054.9	
40 - AHELONGHBA • OH	AEDUCE SOIL SPRING LOSS TO T PLOUING AND EXISTING DALY (TOWN) (TOYS)	621.2 1290.5 3.9 8.0	359.8 1.6	965.0	51.5	922.1 2566.6 2963.0	0.0 (TONS) 4A 0.0 (ACRES) AR 0.00 (TONS/ACRE)	ACR £)	12.8 (TONS) 41 51.3 (ACRES) .51 (TONS/ACRE)	15318.7	s,
חורום	NG POT-REDUCE SOIL SPRING N AND EXISTING DNLY N TONS (1015)		365.1	A17.7	52.1	. —	0000	969-1 (TONS) 3766-0(ACRES) -26 (TONS)	4712.8 (TONS) 9231.3 (ACRES) .51 (TOYS/A	GROSS EROSION 14121.7	8.2
	SS 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1309.5	365.1 1.6	A17.7	52.1	2604.4 2.6	9 • • • • • • • • • • • • • • • • • • •	969.1 3766.0			UCT 104:
	and use	1	STOPLAND 2	340PLAND 346	S40PLAND S46	1	FINEY ARDS	STASSLAND AND PASTURE	4300LAND	SJAMARY TOTAL POTE	*ERCENT REDUCTION:

LAKE ERIE MASTEMATER HANAGERENT STUDT LAND MANAGERENT ALTERNATIVES : BEST MANAGERENT PRACTICE SCENAMIOS

34514: CHAGAIN	CA 14	1110	WILLOUGHBY. OF	#ncu	COUNTY: 20 LAKE. SMID	• 6413			
35n 0#1.	ERISTING POT-N GROSS EROSION 110MS) (10MS)	Tabebuer 501t SPRING L355 TO T PLOUIN AND EXISTING ONLY (10NS) (10NS)	EDUCE SOLL SPRING 355 TO 7 P.D.A.P.G PRO ERISTING ONLY 10NS) 10NS/ACRE, (TONS/ACRE)	FALL P.Julus GMLY (TOMS) (TOMS/ACRE)		F 4	# - D	\$31c M6M7. 543JP LAVC AMEA (ACRES)	E41571% \$316255 > 7 FACT3# (ACMES) (TOWS/ACRE)
110PL640 546 1	6242.6	5.4 5.3 5.4 6.1	6369.6 6369.6	7045.7	5987.1	7.66.6		2/01.5 1109.2	5-8-6
240PLAND 2	2183.9	1555.9	2019.3	2374.6	2 .1 7 .6 5 . E	254.4	910.5	528.2	11 ° 4
CADPLAND 5 S S S S S S S S S S S S S S S S S S	4435.8	3972.1	4363.9	5.886.5 3.4	4254.2	8 85 8 8 8 8 8	84 80 80 80 80 80	1.69.1	3.4
240PLAND 5	194.3	198.3	36.	223.8 .5	190.2	198. 2.	199.3	136.3	• • •
CROPLAND 346 18	19916.0	711.9	19677.1	22471.5	19094.9	2445,1	8516.3	229.6	229.6
1	14391.640 U2099.6		9863.4 32505.9 2.4 9.5	37122-1	31544.2	-1	16862.1	3412.0	
11 VETAROS 440 ORCH-	•••	8.0 (1345) 6.0 (ACRES 6.06 (1045/	ACREU	AATER ONLY	0	B.O (ACRES!			
STASSLAND 440 PASTURE	716.8 3467.5 -21	716.6 (TONS) 3467.5(ACRES) -21 (TONS)	ACRE)	JTHER LAND JSE AREA	3191.5 (40455)	ACRES >			
400 EL 8ND	8656.6 11160.2	11160.2 (AC45) 11160.2 (AC45)	6.6 (TC%5) 41 6.2 (AC4E5) .7E (TOMS/ACME)	AISSING DATA	1346.2 (45855)	ACBES)		•	
JARRAY TOT	AL POTENTIAL 04695.7 2.3	SJMMART TOTAL POFENTIAL GROSS (ROSION 94695.7 19564.4 1.0	444E7.1	1.0 KE 0.4	43465.4	17565.3	27669.1	SJMMART TOTAL POTEWITAL GROSS EROSION SJMMART TOTAL POTEWITAL GROSS EROSION 40695.7 19564.4 44482., 49570.7 43465.4 1/565.5 27869.1 19587.9 2.5 2.5 2.5 .9 1.0	
»ERCENT REDUCTION:	001108:	56.9	•	-16.0	3.2	¥.	57.3		

LAKE ERIE WASTEJATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management Alternatives: Hest Wanas: Me11 Fractice scenapics

	E4197146 521L LOSS 5 T F4CTOR (4CRES) (TOUS/ACRE)	8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	99	. C	9 E	23.0				1		
	4x74Um 4EDUCE) S31L 4G41. CHUCTION TILLAGE: DADUP LAND ILLAGE CHISEL PLOM 4RE TONS, 1104S) (4C2ES)	298.5	5 + 3 + 0	1171.1	23.0	23.8	2158.5			12342-1 (TOMS) 41551MG DATA 6820-1 (ACRES) 34376-3 (ACRES) .36 (TOMS/ACRE)	5.636.9	
	ASDUCED TILLAGE: CHISEL BLOW (TONS)	695.3	659.2	1027.5	~~	205.A 10.7	2632.0				19488.6	•
21 SE EUGA+ JMIO	F & P	331.9	314.6	1027.5	.2	117.3	1795.5	ACRES)	ACRESI	ACRES)	18546.0	5.2
COUNTY: 21 SEAU	Afute Cover Crop (Tovs)	R53.4 726.9	1.1	1027.5	~~~	257.0	-1	1928.9 (ACRES)	14903.3 (ACRES)	6820.1 (ACRES)	17562.0	0.0
Coun		A 5 3 . 4	809. 0 1. 3	1206.2	4.9	13.1	3175.2	JATER Sper only	JTHER LAND JSE AREA	TISSING DATA	20897.6	-2.7
WILLDUSHRY, OH	REDJCF 531L SPRING LOSS TO T FLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) (TOUS/ACRE)	711.1	1.5	1005.2	4.1	251.4	2646.0	(TONS) JA (ACRES) AR (TONS/ACRF)	ACRE)	6.3 (ACRES) 41	1949643	
אורטוא	LOSS TO T FLOWING AND EXISTING ONLY (TONS) (TONS) (TONS) (TONS)	A 46.9	6.99.2 1.1	1027.5	.2	6.4.9 5.0	2486.7 1.2	9 00 0	2461.4 (TONS) 21609.6(ACRES) .11 (TONS)		m (D	1.2
*1.	FRISTING POT REDJCE SOIL GROSS 1055 10 T EROSTOW AND EXISTING (TONS) (TONS/ACRE) (TONS/ACRE)	726.9	689.2 1.1	1027.5	~ ~	257.0	2704.8	  	2461.4 2:500.6 -11	12342.1 34576.3	19562.0	0.0
MINACHINE CHAGRIN	3 35U UNT.	340PLAND 546	SAGPLAND SAS	C10PLAND 3	343PLAND 546 5	CROPLAND S46 10	210PLAND 2704.8	FINEYARDS RVD ORCH.	STASSLAND AND PASTURE	4000LAND	SJANARY TOTAL POTENTIAL 19562.0	PERCENT REDUCTION:

LAKE ERLE WASTEWATER RANAGENENT STUDY
L.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND HANAGENENT ALTERNATIVES: BEST HANAGENENT PRACTICE SCENARIOS

SASIN: CHAGRIN	162 IN	#11F0	WILLOUGHBY, OH	NUCO	COUNTY: 22 PORTASE, UMIO	ASE, BMIG			
1480 USE	EXISTING POT- GROSS EROSION (10MS) (10MS/ACRE)	•	REDUCE SOIL SPRING LOSS TO T PLOWENG AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)		WINTEN COVER CROP (TONS) (TONS/ACRE)		<b>€</b> ⊢ ∪ ∪ ∪ ·	SOLL MENT. SROUP LAND AREA (ACRIS)	E41571N6 531L LOSS 7 FACTOR (10NS/ACRE)
CAOPLAND S46		_	206.7 636.7 5.9 9.2	•	18.5	130.0		6.69	6.99
SAS SAS	336.1	316.4	312.0	349.4	316.4	316.4	335.1	114.9	0 <b>0</b>
SAOPLAND S46	11 ° 8 11	4 et a	12.9	2. 4. 3.	13.1	13.1	1.8.1	23.0	0 0
ROPLAND	1	1	961.6	1076.8	975.2	459.5	670.5	536.2 961.6 1076.8 975.2 459.5 670.3 206.7 2.6 4.7 5.2 4.7 2.2 3.2	
JINEYARDS A43 ORCH.	• •	999	(ACRES) 11 (TONS/ACRE)	JATER SREA ONLY	23.0 6	23.0 (ACRES)			
STASSLAND AND PASTURE	641.8 E 6131.2	641.8 (TONS) 6131.2(ACRES) .10 (TONS)	ACRE)	JTHER LAND JSE AREA	1010.4 (ACRES)	ACRESI			
7000F AND	980.0 4546.8		(TONS) 4	91SSING DATA	413.4 (ACRES)	ACRESI			
SJRRARY TO	3JMMARY TOTAL POTENTIAL 2694.8		2689.7	2400.3	2694.8	2159.5	2373.3	AOSS EROSION 2686.7 2800.3 2694.8 2159.5 2373.3 11298.1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	
PERCENT REDUCTION:	DUCT 10%:	16.9	ě.	6.5-	9.0	19.9	11:1		

LAKE EPIE WASTEWATER MANAFEPENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT Land management alternatives : Rest Manascheut Practice scevarios

	511 1055 5311 1055 5311 1055 5311 1055 61055	405.7	8.68. 8.4	1240.0	00	~	0 6 6 6 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8			0 0 0 0 0 0 0 0 0		
	SOIL MEMT. SADJE LAND AREA (ACRES)	1722.3	1469.7	3191.9	643.0	252.6	1279.5			26691.5 (TOMS) WISSING DATA 22242.6 (ACRES) 59314.6 (ACRES) .45 (TOMS/ACRE)	126795.2	
	REDUCED TILLASI: C41SEL 2,34 (TONS)	4382-3	1749.5	6657.4	267.7	8861.9 35.1	21919.5				6475941	24.1
IN BASTN	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE	1427.8	628.5	6657.4	267.7	2562.4	11543.8	ACRES)	ACRES)	ACRES)	52176.4	39.1
COUNTY: 67 ALL IN BASIN	30000	R640.7 5.0	3064.1 2.1	6456.7	258.4	19351.9	37771.8	2204.5 (ACRES)	29599.9 (ACRES)	22242.6 (ACRES)	43984.1	2.0
1ND C	T T	10101.8	3599.0 2.4	7550.6	302.5	22773.2	1	JATES ONLY	OTHER LAND JSE AREA	41SSING DATA	91946.1	-7.3
WILLOUSHPY. OH	SPRING PLOWING ONLY (TOYS)	AR07.9	3115.3	6566.1	266.3	19928.3	38680.1	(TONS) JATES (ACRES) AREA (TONS/ACRE)		1.5 (TOWS) 419 19.6 (ACRES) .45 (TOWS/ACRE)	85985.6	
חורוטו	AEDUCE STIL SPRITA AND EVISTING ONLY 1TONS) (TOYS	4155.3 AND7.9	2610.2	6193.7	267.7	780.8	14008.3	0.00	ATRESC (TONS) SA978.3(ACRES) *14 (TORS/			35.5
	EXISTING POT-1 FROSS EROSION (TONS) (TONS/ACRE)	6924-7 5-2	3156.2	6657.4	267.7	20167.0		5 6 5 5 6 5	4766.2 36385.2	26691.5	314444 TOTAL POTENTIAL 61 85685.8	C.T. 106:
PASIN: CHAGRIN	AND USE	1109LAVD 343 1	S10PLAND S46	313PLAND 346 3	CROPLAND SWS 5	SAG 10	CAOPLAND	VINEYARDS AVD DACH.	STASSLAND . AND PASTURE	43001440	SJUMANT TOTAL POTENTIAL 85655.8	SERCENT REDUCTION:

LAKE CRIE HASTENATER RAKAGEMENT STUDY LAND MANAGEMENT ALTERNATIVES: BEST MANAG! MEHT PRACTICE SCEMARIOS

SASIV: GRAND	gat	PAINE	PAINTSVILLE, 34	*ac:	COUNTY: 20 LAKE. 3HIU	. 3410			
Jen der	EXISTING POT- SEQUENT FROSTON (TOMS)		AEDUCF SOIL SPAING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS) ACCRE) (TONS/ACRE)	FALL PLOWING ONLY (TOMS) (TOMS/ACRE)	340	I &	REDUCED TILLAGE: CHISEL PLD4 (TONS)	SOIL MEMT. SAOUP LAND ALEA (ACRES)	E
STOPLAND	17314.3	<b></b>	6513.3 17111.8 19501.8 3.0 7.9 9.1	19591-8	16605.5	2126.3	-	9.0512	1722.5
S46 2	24756.8	23551.4	2467.3	27941.9	23743.4	3040.5	10713.5	9127.5	7362.4
CROPLAND 545	2244.6	2244.6	2218.3	2555.4 1.6	2152.7	2244.6	2241.5	1.23.7	••
CLOPLAND S46 5	125.6	125.6	124.1	141.8	120.5	125.6	125.6	206.7	00
340PLAMD 345 10	15184.9	182.2	14926.3	17648.3	14486.6	1855.0	6535.5	156.7	160.7
LAGELAND	111 140FLAND 59546.2	32717.1	28649.8 4.4	58849.8 67207.2	57108.7	57108.7 9391.8 27113.8 9.6 .8 2.2	2.2	12377.3	2
VINEVARDS AUD ORCH.	• • •	900	(TONS) JA (ACRES) ARI (TONS/ACRE)	JATER Area only	551.1 (4CKES)	4CKES)			
31ASSLAND And Pasture	2666.6 E 11573.6	2806.6 (TONS) 11573.6(ACRES) 11 (TONS/	ACRED	JTHER LAND JSE ARFA	6496.8 (ACRES)	ACRES)			
433 DL AND	10011.9 20690.1		11.9 (TOWS) 41: 10.1 (ACRES) .48 (TOWS/ACRE)	41SSING DATA	3995. B (ACRES)	ACRES)			
SJUNAAY TO	SJANAAY TOTAL POTENTIAL G 77970-1		ROSS EROSION 77211.4 B6316.8 75314.4 23326.6 42638.3 49536.6 1.6 1.6 1.5 .5 .5		75314.4	23326.6	42634.3	43536.6	
PERCENT REDUCTION:	DUCTION:	37.5	1:0	-10.7	4.8	70.1	45.3		

LAKE ERJE WASTEWATER MANAGEMENT STURY U.S. ARMY COAPS OF ENGIVEERS. BUFFALG DISTRICT Land Management alternatives : Rest Management Practice Scevarios

The second secon

	FAISTING 5)1L .35S 5 T FACTOR (ACRES) (TOWS/ACRE)	0.0	0 C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0	•	
	EDUCE) 531L MGMT. 11LAGE: 343J2 LAVD HISEL PLOW AREA TOMS) (ACRES)	23.0	23.0	30.2 30.2 30.2 46.3			1908-9 (1008) 41SSING DATA 77386.7 (ACRES) 5128.0 (ACRES) 61 (1008/ACRE)	92163-1	
			5.0	-11- 30.2				37029.8	:
64. OHIO	<i></i>	25.2	N.	30.2	4CRES)	ACRES)	ACRESS	37028.8	0.0
COUNTY: 21 GEAUGA. OHIO	LINTER COVER CROP (TOUS) (TONS/ACRE)	25.2	5.0	•	68.9 IACRES)	298.5 (ACRES)	11586.1 (ACRES)	3702A.8	0.0
COUNT	MEDUCE SOIL SPRING FALL WINTER LOSS TO T PLOWING PLOWING COVER AND EXISTING ONLY CORP (TONS) (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	25.2 24.7 29.5 1.1 1.1 1.3	η. 6. δ.	30.2 29.6 35.5 .7 .5 .8	JATER Brea only	JYHER LAND JSE AREA	41SSI4G DATA	37120.0	?
PAINESVILLE. TH	SPRING PLOWING 3 ONLY (TONS)	24.7	6.5	29.6	(JE)	ACRE)	15.9 (TONS) 415 13.0 (ACRES) 61 (TONS/ACRE)	3761A.5	•
PAINES	LOSS TO T PLONING LOSS TO T PLONING ONLY (TOWS) (TOWS)		5.2		0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/A	213.5 (TONS) 1607.4(ACRES) .13 (TONS)			0.0
	EXISTING POT-1 GROSS 1 EROSION 1 170MS)	10PLAMD 25.2			999	213.5 1607.4	1908.9 3123.0	JAMARY TOTAL POTENTIAL GA	CTION: 0.0
345IN: GRAND	350 045	CADPLAND 346 34	CROPLAND SVS	340PLANO	VINEYARDS AVD ORCH.	Stassland and pasture	JOOFAND	Sidday Total Potential	PERCENT REDUCTION:

LAKE ERIE JASTEJATER NANAGENENT STUDY Land management alternatives : BEST Management practice scenarius

315IN: GRAND	•	PAINES	PATHESVILLE. OH	tunc:	COUNTY: 22 PORTAGE, OMIO	5E+ 34IU			
35n gar'	ENISTING POT-RE GROSS LO EROSIDA AN (TOMS/ACRE) (T		SPRING PLONING ONLY (TONS) (TONS)	FALL PLOUING DALY (TONS/ACPE)	SS TO T PLOWING PALL WINTER MAKINUM REDUCED SS TO T PLOWING PLOWING COVER AEDUCTION FILLAGE: 10 EXISTING ONLY CADP TILLAGE CHISEL PLDW CASP TILLAGE CHISEL PLDW CASP TILLAGE CHISEL PLDW CASP TILLAGE CHISEL PLDW CASP TOWNS ACRES TOWNS A	MAKINUM MEDUCTION TILLAGE TTONS) TTONS/ACRE)	REDUCED SDIL TILLAGE: 313UP CMISEL P.D.A AREA (TONS) (ACRE (TONS)ACRE)	COUCE SOIL SPRING FALL WINTER MAKINUM REDUCED SDIL NGWT.  SS TO T PLOWING PLOWING COVER REDUCTION FILLAGE: 313U* LAVO  ID EXISTING ONLY OALY CROP TILLAGE CHISEL PLOW AREA  TONS) (TONS) (TONS) (TONS) (TONS) (TONS)  TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	E4187186 S31 LOSS > 7 FACTOR (ACRES) (TOMS/ACRES)
SASPLAND	132PLAND 0.0		0.0	6.0	0.0	0.0		43PLAND 6.0 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
VINEYARDS AVD ORCH.	9 6 6 9 9 9	6.0 (TOMS) 6.0 (ACKES) 0.00 (TOMS/A)	i i	AKTER AREA ONLY	0.0 CACRESI	CRESI			
STASSLAND AND PASTURE	142.6	142.8 (TOMS) 1306.9(ACRES) .11 (TOMS/	ACRES	JTHER LAND JSE AREA	114.8 (ACRES)	CRESI			
4300LAND	63.6 482.2 5.13	65.6 (TONS) +82.2 (ACRES) -13 (TONS/A	2.6 (TOMS) 419 2.2 (ACRES) .13 (TOMS/ACRE)	41SSING DATA	23.0 (ACRES)	CRESI			
SLAMARY TOTAL POTENTIAL GRO SLAMARY TOTAL POTENTIAL GRO SLAMARY TOTAL CROSS	L POTENTIAL 289-1	64055 EROSION 269.1	2092	209.1	209.1	209.1	269.1	SS EROSION 209.1 209.1 209.1 1614.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .	
PERCENT REDUCTION:	CT 10N:	•••	•	0.0	0.9	0.0	0.0		

LAND MANAGEM	INAGENENT AL	STEWNIEW FRWANKERS STORY	BEST MANAS	LAKE ERIE EBSTEWATEN TRABECTION STORY LAND MANAGEMENT ALTERATIVES : HEST PANASSERENT PRACTICE SCENARIOS	SCENAR 10S	PARCHICE SCENARIOS		•	
SASIN: CRAND	2	3P14G	PAIVESVILLE. JH	INOC3	COUNTY: 24 ASMTABULA, OHIO	48ULA. 0HIO			
AND USE	EXISTING POT GROSS EROSION (TONS)	ING POT.MEDUCF SOIL SPRING LOSS TO T PLOWIN ON AND EXISTINS ONLY O (TOMS) ACCRED (TOMS)	REDUCF SOIL SPRING LOSS TO T PLOWING AND EXISTINS ONLY (TONS) (TONS)		JINTER COOFR CROP (TONS) (TONS)	WAKINUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	######################################	SOL MGMT. SQUP LAVO AREA (ACRES)	EXISTING SOIL LOSS > 7 F4CTOR (ACAES)
STOPLAND 3	3546.4		3485.3	-	3544.4	425.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	3138.9	2089.7	0.0
STOPLAND STG 2	57916.5 1.6	53475.1	56951.3	6.9499.8 2.0	57916-5	23166.6	51159.5	35111.1	2985.2
CROPLAND S46 3	5053.5	5053.5 1.0	4969.3	6064.2	5053.5	5053.5	5053.5	+622.3	6 8 6 8
:13PLAN3 546 5	16399.1	16399.1	16125.8	19578.9	16399.1	16399.1	16399.1	49646.3	00
I	. [	18472.1	61531.7	99496.2	A2913.5	46037.8	-1		1 + + + + + + + + + + + + + + + + + + +
VINEYARDS And orch.	58.31 · 7 2548 · 9 2 · 2 · 2	+364.4 (10NS) 2548.9 (ACRES) 1.72 (10NS/A	,	JATER Area only	2490.1 (ACRES)	ACRES)			
STASSLAND SVD PASTURE	1446.5 29599.6 -05	29599.8(4CRES)	CRC	JTHER LAND JSE AREA	11091.3 (ACRES)	ACRESI			
JOOOL AND	10336.9	4961.8 (TONS) 70336.9 (ACRES) .07 (TONS/A	11.8 (TONS) 16.9 (ACRES) .07 (TONS/ACRE)	MISSING DATA	99816.6 (ACRES)	ACRES)	•		
SURRARY TOTAL POTE		HTTAL GROSS EROSION 172.5 137347.8	141980.3	169180.5	144672.5	86237.6	133215.9	HITAL GROSS EROSION 172.5 137347.8 141960.3 169180.5 144072.5 88237.4 133215.9 293972.2 .5 .5 .5 .5 .5 .5 .6	
PERCENT REDUCTION	ICTION:	•	•	* * * * *	•	;			

		5316 6085 5316 6085 7 FACTOR (ACRES) (TOWN/ACRE)	1722.5	18287.6	::	# # # # # #	7.69.				
5		SOIL NEMT. 31332 LAVO 4424 (46453)	1248.2	43358.5	6429.7	43976-5	1997			1330LAWD 16996.2 16996.2 (1798) 41SSING DATA 197592.6 (ACRES) 94951.7 94632.2 (ACRES) .16 (TOMS/ACRE)	433451.6
FFALO DISTRI		REDUCED TILLAGE: CHISEL PLOM 170MS) (TOMS)	10623.6	1.61013.1	7323.5	16529.7	6536.5	10286.5		i 2 4 1 1 1 1 1	224253.3
LAKE EDIE WASTEWATER MAMAGEMENT STUDY Land mamagement altermatives : best parasement practice scenarios	IN BASIN	LOWS/ACRE (TOWS/ACRE) (TOWS/ACRE)	255.5 2055.7 2059.1 25795.1 26149.9 1546.1 10623.6 2.5 6.9 4.7 6.8 2.5	26206.9	1323.3	16529.7	1855.0	55459.6 55459.6 .5 (ACRES)	(ACRES)	(ACRES)	144542.5
V CONPS OF L	COUNTY: 62 ALL IN BASIN	WINTER COVER CROP (TONS) (TONS/ACRE)	26149.9	81659.9	7231.4	16524.5	14486.6	148652.3 554 148652.3 554 1.3 18861 (ACRES)	iebab.3 tacres)	197592.6 (ACRES)	1.5777595
U.S. ARH ENT PRACTICE	NOCU	FALL PLOWING ONLY (TONS) (TONS/ACRE)	23795.1	97441.7	8627.2	19426.5	17048.3	166738.8 166738.8 1.6 4ATER 4AER ONLY	JTHER LAND JSE AREA	41SSING DATA	340821.8
STUDY BEST MANAGEM	PAIVESVILLE 54	MEDUCE SOIL SPRIMG LOSS TO T PLOWING AND EXISTING ONLY (TONS) (1704S) (1004S/ACRE)	20597.1	81418.5	7212.3	16254.8	14926.3	140411.0 140411.0 11.3 11.3 12.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14	IC RE )	16.2 (1795) 41 18.2 (ACRES) 18 (10NS/ACRE)	14 294407.5 7
R MANAGEMENT ERNATIVES :	PAIVE	EXISTING POT-NEDUCE SOLL SPRING EAGSS LOSS TO T PLOWIN FAGSION AND EXISTING ONLY TOWNS ACRE TOWNS ACRE (TOWNS /	19857.7	76826.5	7323.3	16529.7	182.2	111219.4 1400; 111219.4 1400; 1-11219.4 (1505)	3889.4 (TOMS) 44889.8(ACRES) .09 (TOMS/	16946-2 (734S) 94632-2 (ACRES) -18 (TONS/A	64055 EROSIG
NAGENENT ALT	•	EXISTING POT GROSS EROSTON (TOWS) (TOWS) ACRE)	20850.7	82673.3	1323.3	16529,7	15184.9	ROPLAND 142489,9 131219.4 140413.0 166738.6 140852.3 55459.6 1.5 1.5 1.6 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	36.09.4	16946.2 94953.7	SAMMARY TOTAL POTENTIAL GAOSS ENSION 298072.5 243013.3 26ACENT REDUCTION: 8.6 18.4
LAKE ER	SASIVE GRAND	1480 USE	340PLAND 540PLAND 540	SAGPLAND 2	SROPLAND 343	CROPLAND S46 5	280PLAND 313 10	SOPLAND JIVEYARDS AVD ORCH.	JRASSLAND AND PASTURE	JOOFAND	SJAMARY TOTAL POTES 2950 255CENT REDUCTION:

1940	LAKE ETTE WASTEWAL	NOTERICA SERVICES SOLDS CONTROLLES CONTROLS CONTROLS CONTROLS SERVICES SOLDS S	PEST MANAGE	MENT PRACTICE	SCENAR 10S	DESCRIPTIONS OF THE PROPERTY OF THE CONTROL OF THE		<b>.</b>	
34518: ASHTABULA	HTABULA RIVER		ASHTAPULA, OH	Const	TY: 24 ASHT	COUNTY: 24 ASHTABULA, OHIO			
. 1vb usE	EXISTING POGROSS FROSION (TONE) (TONS)	NG POT-REDUCE SOIL SPRING LOSS TO T PLOWIN NA AND EXISTING JULY (TONS) ACRE) (TONS/ACRE) (TONS/	REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING JULY ATONS ATONS (TONS) ATONS	FALL PLOVING ONLY (TOVS)	dinter Cover Crop (Tons)	JAVIER HARTHUM COVER REDUCTION TILLAGE (TONS) (TONS) (TONS/ACRE)	MEDUCE) TILLAGE: CMISEL PLOW (TOMS)	SOL MGMT. GROUP LAND AREA (4CRES)	ENISTING \$31L LOSS 5 T FACTOR 6 ACRES (TONS/4CRE)
140PLAND 24 545 1	2459.2	2353.2	2418.2	2951.1 2051.1	2454.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2172.5	2353.2 2418.2 2951.1 2495.2 983.7 2172.5 1217.1 1.3 1.9 2.0 .0 .0 1.3	1.60.7
SAS 2	29182-1	25825-8	28695.8	35018.6 2.2	29192-1	116 72.9	25777.5	15569.2	1996.0
STOPLAND STG 3	365.1	365.1	559.0	1.88.1	365.1	365.1	365.1	995.6	 
345 546 5	5192.5	5192.5	5105.9	5231.0	5192.5	5192.5	\$192.5	15359.5	
1	37196.9	1	36578.9	33736.6 35578.9 44638.8 1.0 1.1 1.3	37198.9 18214.2 1.1 .5	18214.2	35507.4	33541.5	
VINEYARDS AND ORCH.	272.4 68.9 3.95	103.5 (TONS) 68.9 (ACRES 1.50 (TONS)	) ACRE)	JATER Srea only	436.3 (ACRES)	ACRES)			
SRASSLAND And Pasture	653.4 11757.3	653.4 (TONS) 11757.3(ACRES) .06 (TONS/	נשט	JTHER LAND JSE AREA	6314.9 (ACRES)	ACRESI			
ONVIGOOF	2692.5 25397.5	2092.5 (17NS) 25397.5 (ACRES) .008 (TOMS/A	92.5 (TONS) 4 97.5 (ACRES) -08 (TONS/ACRE)	415SING DATA	4340.1 (ACRES)	ACRES)		•	
J44ARY TOT	3.144AY TOTAL POTENTIAL 42680.5	6ROSS EROSION 59865.9	42922.3	50575.9	42690.3	22532.9	39762.7	5.444RY TOTAL POTENTIAL GROSS EROSION 42722.3 50575.9 42690.3 22552.9 30762.7 73285.3 42690.3 6.6 .3 .3 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	
PERCENT REDUCTION:	UCT I ON:								

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BISI MINA COMPS OF ENGINEERS, FUFFALO DISINICI		
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11 S1007	BEST MANAGEME'	
EMERT STUDY	ES : BEST MANAGEME'	
MAGENERY STUDY	TIVES : BEST MANAGEMEN	
MARKAGERERY STUDY	ERNATIVES : BEST MANAGENE'S	
FILE BARAGERERY STODY	ALTERNATIVES : BEST MANAGENE'S	
STERBILL MARKSTACET STODY	INT ALTERNATIVES : BEST MANAGEMEN	
CASTEGRATER MARKSCRICKY STUDY	GENEUT ALTERNATIVES : BEST MANAGENEY	
CHIE WASHEBATER MARKACANERY STUDY	MANAGENEMT ALTERNATIVES : BEST MANAGENEN	
LAKE ERIE WASTELATER MARKAGEMENT STUDY	LAND MANAGEMENT ALTERNATIVES : SEST MANAGEMENT PRACTICE SCENAMIOS	

3451h: ASMTABULA	ITABULA RIVER	ASHTAF	ASHTARULA. OM	COUNT	COUNTY: 26 ERIE, PERNSYLVANIA	. PERNSTL VAN			
-A40 USE	EAISTING POT GROSS EROSJON (TONS) (TONS/ACRE)	ING POT-REDUCE SOIL SPRIM LGSS TO T PLOUS ON AND EXISTING ONLY 1 (10MS)	MEDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS) (TONS/ACRE) (TONS/ACRE)	44	400	MAXIAUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	4 - U - U	SOUP LAND. AREA (ACRES)	E4151146 S316 LOSS > 7 F4CTOR (ACRES) (1045/ACRE)
STE 1	10PLAND 159.9	159.4	156.5	182.3	158.2	**************************************	92.3	1.04	0.0
STOPLAND 2	1972.7	1186.1	1930.2	2248.4	1951.5	424.2	1145.4	395.4	595.4
STGPLAND 3	3712.1	3712.1	3632.3	4231.0	3672.2	3712.1	3712.1	1363.6	
STOPLAND 4	175.1	175.1	171.5	139.5	173.2	101.7	101.7	197.7	
CROPLAND 346 5	27.0	27.0	26.1	x	26.7	27.0	27.0	39.3	••
CLOPLAND	[	5260.2	5916.7	6492-1	598148		5079.1	2095.5	
VINEYANDS AND ORCH.	299.1 158.1 1.89	226.8 (T 158.1 (A	(TONS) 4A (ACRES) ARI (TONS/ACRE)	JATER AREA ONLY	79.2 CACRESS	ACRES.			
SRASSLAND LID PASTURE	20°00 .	13.5 (TUMS) 197.7(ACRES) .07 (TOMS)	ACRES	JTHER LAND JSE AREA	276.8 (ACRES)	ACRES)			
JOOOLAND	299.1 2550.4 .12	299.1 (TONS) 2530.4 (ACRES) .12 (TONS/A	99.1 (TOMS) 415 18.4 (ACRES) •12 (TOWS/ACRE)	4155746 DATA	0.0 (ACRES)	ICRES)			
JAHARY TOT	SJAMARY TOTAL POTENTIAL 6658.5	GROSS FROSION 5871.9 3.2	6526.4	7503.9 1.5	6593.5	4911.1	5690.B	SJMMARY TOTAL POTENTIAL GROSS FROSION SJMMARY TOTAL POTENTIAL GROSS FROSION 6556.5 5671.9 6558.4 7503.4 6593.5 4931.1 5690.8 4981.7	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
JERCENT REDUCTION:	UCTION:	***	2.3	-12.7	3-1	26.2	10.3		

U.S. ARBY CORPS OF EASINGERS. MUFFALO DISTRICT	
U.S. ARMY CORPS OF	ENT PRACTICE SCENARIUS
LAKE FRIE MASTEWATER MANAGEMENT STUDY	LAKO KANAGEMENT ALTERNATIVES : PEST KANASEMENT PRACTICE SCENARIUS

BASIN: ASMTABUL	ITABULA RIVER	ASHTA	ASHTAHULA. 94	COUNT	TV: 27 CR 34	COUNTY: 27 CRAUFORD. PENNSYLVANIA	LVANÍA		
. 1 ND USE	EXISTING POT GROSS EROSION (TONS)	EXISTING PDT.REDUCE SOLL SPRING GROSS COSS TO T PLOLING FROSIDN AND EVISTING DALY (TONS) (TONS) (TONS)	SPRING PLOLING 5 JULY (10%S) (10%S/ACRE)	REDUCE SOIL SPRING FALL JINTER MAXINUM MEDUCE) LOSS TO F PLOLING PLOUJNG COVER REDUCTION TILLAGE: 3 UT CROP TILLAGE CHISCE 3 JA (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS) (TOMS)	JINTER COVER CROP (TONS)	4AXIAUM REDUCTION TILLAGE (TONS)	4EDUCE) 531, TILLAGE: 313,94 CMISEL 3,34 43E4 (TONS) (ACRE	SOLL MENT. Stade Land Atea (ACRES)	58151186 5916 1955 57 FECTOR (ACCECS) (1045/40RE)
I	51.2	51.2	50.0	59.6	51.5	25.46	5.12 .:	51.2 51.2 50.0 59.6 51.2 51.2 51.2 79.1	
110PLAND	51.2	51.2	-1	6.65 9.65 9.93	51.2	51.2	51.2	51.2 51.2 50.0 59.6 51.2 51.2 79.1 .6 .6 .6 .5 .6 .6 .6 .6 .6 .5 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VINEVARDS AND ORCH.	000	0 0 0	0.0 (TONS) JA 0.0 (ACRES) 19 0.00 (TONS/ACRE)	JATER JREA ONLY	0	D.O. CACREST			
314SSLAND 1VD PASTURE	000	0000	0.0 (TONS) )T 0.D(ACRES) JS 0.00 (TONS/ACRE)	JTHER LAND JSE AREA	0.0	O.O (ACRES)			
4000LAW0	79.5	79.1	3.5 (TONS) 41 79.1 (ACRES) .04 (TONS/ACRE)	MISSING DATA	9.0	O.U (ACRES)	1 1 1 1 1 1 1 1 1		
SJAMARY TOT	SUMMARY TOTAL POTENTIAL GROSS E40SION SA-7 54-7 54-7 54-7 54-7 54-7 54-7 54-7 54	GROSS E20S10	N 53.5	63.1	54.7	54.7	54.5	154.2	
PERCENT REDUCTION:	0.CCT10W:	0.0	2.2	-15.4	0.0	•			

TANE ER	HE BASTEVATE: MAREHENT ALT	LAME ERIC WASTEWATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENSIVEERS. BUFFALO DISTRICT MAMAGEMENT ALTERMATIVES : BEST MAMACLMENT PRACTICE SCENARIOS	STUDY BEST MANAGEM	U.S. ARMY	CORPS OF ER	istveers, buf	FALO DISTRIC	_	
		ACHTA	ASHTAKULA. CM	COUNT	COUNTY: 62 ALL IN BASIN	14 BAS IN			
BASIN: ASMTABULA	ASULA RIVER					***************************************	FRIEF	Sall Ment.	£4181146
380 08F.	EXISTING POT GROSS EAGSION	ING POT-REDUCE 531. SPRING LOSS TO T PLOWING ON AND EXISTING DNLY TOWS?	SPRING PLOUING G ONLY (TONS)	FALL PLOUING ONLY (TONS)	Elvier Cover Crop (Tows)	TOWS) TOWER WALLS TOWERS (TOWE) TOWERS (TOWERS)	1111465: CHISEL PLOW (TOMS)		\$31L L255 > T FACTOR (ACRES) (1045/ACRE)
	(TORS/ACRE)	(TONS/ACRE)	STONS/ACRE) (TONS/ACRE)	(TOWS/ACRE)	- 1082/ ALAC	# # # # # # # # # # # # # # # # # # #		1.784.1	160.7
1 1	1 2619.2		2513.2 2574.8	3133.4		1018-1	2265.2	•	
346	2.0	1.9			4.1111	12097.1	26923.9	15364.5	2561.5
LAND	31154.0	27011.9	38626.3	31266.3	2.1.2	•	1.1		
2 2 2 2		6.11.2	3991.3	1.6901	4037.3	4077.2	1017.2	2279.4	
CROPLAND	1.0	9.1	1.6	2.0	B•1	•		141.7	0.0
LAND	175.1	175.1	171.3	199.6	173.2	101.7			0 • 0
343	•	•		4121.3	5270.4	5270.7	5270.7	16078.2	• •
CROPLAND 346 5	5270.7	5270.1	6.	•	r.	r.	•	1	[]
			•	and the state of t	0.01010	22564.8	38637.9	35916.8	
ROPLAND	43297.0		42545.7	51590.	1.2	9.	1:1		
VINEYARDS AVO, ORCH.	571.5 227.8	NJ 64	550.3 (TONS) 4 227.1 (ACRES) 41 1.45 (TONS/ACRE)	AATER AREA ONLY	515.4	515.4 (ACRES)			
338SLAND AND PASTURÉ	111	1195	ACREI	STAER LAND JSE AREA	6591.7 (ACRES)	(ACRES)			
230BL AND	2395-12898-18	2395.1 (TONS) 28007.0 (ACRES) .09 (TONS/A	(TONS) 4 (ACRES) (TONS/ACRE)	41551MG DATA	4340.1 (ACRES)	(ACRES)		4300LAND 2395.1 2395.1 (TOMS) 41551MG DATA 4340.1 (ACRES) 28097.0 28007.0 (ACRES) 409 (TOMS/ACRE)	, , , , , , , , , , , , , , , , , , ,
. J4444 10	TAL POTENTIAL 49610-3		138 4 8816.1	58377.2	49541.5 d.	27694.2	44583.3	90345.1	
PERCENT REDUCTA	ouction:		4.6	-11.1	7.	44.2	1.1		

			0.0	114.8 3.8	0.0						
	SIM	SOIL 4647. GROUP LAVO MAYEA (4C4ES)	6.16	528.2	91.9	712.0				3695-1	
FFALO DISTR	ALL IN BASIN	MAXIMUM REDUCED SOIL REPUCTION TILLAGE: GROUN TILLA	183.5	1013.5	25.4	1222.3				2317.3	9.3
ENGINEERS. BU	COUNTY: 24 ASHTABULA, OMIO	MAKINUM AEDUCTION TILLAGE (TONS)	207.5 85.0 185.5 91.3	0.9.0	25.4	567.4	0.0 (ACRES)	ACTESI	(ACRES)	1372.8	46.1
V CORPS OF E	TY: 24 ASHT	UINTER COVER CRCP (TONS)	207.5	1147.4	25.4	1340.3	0.0	3651.2 (ACRES)	1745,2 (ACRES)	2544.6	0.0
U.S. ARM ENT PRACTICE	MUCO	REDUCE SOIL SPRING FALL UINTER LOSS TO T PLOUTNG CLOUING COVER AND EXISTING ONLY CROP TONS, TONS, TONS, TONS, TONS, TONS, ACRE) (TONS, ACRE) (TONS/ACRE)	207.5 204.1 249.1	1376.9	4.08	1656.4	JATFR AREA ONLY	JTHER LAND JSE AREA	TISSING DATA	2942.9	-15.6
STUDY SEST WANAGER	ASHTABULA. GM	SPRING PLONING 7 ONLY (TONS)	204.1	1124.3	24.9	1175.3 1357.3	Ş	ACRE)	7.6 (TONS) 41: 6.7 (ACRES) -12 (TONS/ACRE)	2511.7	1.3
R MAYAGEMENT. ERNATIVES : E	ASHTAR	EXISTING POT-REDUCE SOIL SPRING FROSS LOSS TO T PLOUTIN FROSION AND EXISTING ONLY FLOWS (TOWS) (TOWS)	207.5	942.4	25.4		+5.9 (TOMS) 23.0 (ACRES) 2.00 (TOMS/A	86.7 (TONS) 1768.2(ACRES) .05 (TONS/	167.6 (TONS) 1446.7 (ACRES) -12 (TONS/A	640SS ERUSION 2249-3	11.6
LARE ERIE WASTEWATER MAYAGERENT, STUPV Land Managerent Alternatives : Best Management Practice Scemarios	AND RUN	EXISTING POT- GROSS FROSION CTONS)	10PLAND 207.5	1147.4	25.4	139LAND 1580.3	138++ 23-0 5-67	86.7 1768.2 .05	167.6	SJMMARY TOTAL POTENTIAL GROSS ERGSION SJMMARY TOTAL POTENTIAL GROSS ERGSION 2544.6 2249.3 2511.7 2442.9 2544.8 1372.8 2317.3 5695.1	CT104: 6.6
LAND MA	315IV: HUBBARD RUW	LAVD USE	10PLANO 346 1	CROPLAND S46 2	340PLAND 345	CROPLAND	FIVETARDS AND ORCH.	324SSLAVD 4VD PASTURE	4300LAND	SJHRARY TOTAL	PERCENT REDUCTION:

LAME ERIE HASTENATER NAMAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, RUFFALO DISTRICT Land namabement alternatives : Rest Management Practice Scenarius

3451N: COM	SASIN: COMMERNY CREEK	COMME	COMMEAUT. GM	Nnc 3	COUNTY: 24 ASMTABULA, DMIO	ABJLA, OHIJ			
LAND USE	CA151186 POT-8 GROSS EROSION (1985) (1985)	1.055 TO T PLOMING LOSS TO T PLOMING AND EXISTING ONLY (TONS) (TONS) (TONS)	5 A 7.8 7.8	FALL PLONING ONLY (TONS) (TONS/ACRE)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CMISEL P_J4 (TOMS)	\$314 MGMT. \$1332 LAUD 44EA (ACRES)	ERISTING S31L . DSS > 7 FACTOR (ACRES) (104S/ACRE)
1 945 2 3 94 AND	-[	1184.7	1184.7 1164.9	1421.5 1194.7 173.9 1045.5 1182.2	1194.7	175.9	1045.5	}	
340PLAMD 2	9255.9	6741.7	9101.6	11107.1	9255.9	3702.4	8176.0	3966.3	1423.7
SASPLAMD 3	1.1.1	1.1.1	136.7	169.3		141.1	141.1	321.5	# C
CHOPLAND SHG 5	163.7	163.7	161.0	**	163.7	163.7	163.7	551.1	
]		9231.2	-I	9231.2 10566.2 12894.4 1.4 1.8 2.2		16745.4 .8 .8 1.6	9527.3	3955.5	7
JINEYARDS	411.7 367.4 1-12	315.6 :TONS) 367.5 (ACRES) .86 (TUNS/A	CRC	JATER AREA ONLY	298.5 (ACKES)	ACKES 3			
SAASSLAND And pasture	213.2	273.2 (TONS) 3169.9(ACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	2752.7 (ACRES)	ACRESI			
43001440	878.6 3849.8	876.6 (T34S) 7049.8 (ACAES) .12 (T0NS/A	19.6 (TONS) 18.19.8 (ACRES) 12 (TONS/ACRE)	41SSIV6 DATA	3834.9 (ACRES)	ACRES3		878.6 (TOUS) 41551V6 DATA 3834.5 (ACRES) 7849.8 (ACRES) -12 (TOMS/ACRE)	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3,149827 TOT	114447 TOTAL POTENTIAL GR		14949.0	17820.2	15170.6	9.444/	13667.3	25276.7	
PERCENT REDUCTION:	UC 11 04:	20.4	1.5	-11.5	0.0	50.9	6.6		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF EVGINEERS. RUFFALO DISTRICT Land Management alternatives: Rest Management Practice Scenarios

	EW 181146 531L LOSS > T FACTOR (ACRES) (TOVS/ACRE)	1709.1	5456.1	4278.0	0.0	0.0	474.4	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
	2004	1918.7	553541	4278.0	711.7	790.7	.74.0	13500.5			(TONS) 41 <sing (acres)="" (tons="" 790.7="" acre)<="" data="" th=""><th>32617.7</th><th></th></sing>	32617.7	
_	<b>3</b> ^	3514.4	13477.1	17789.5	357.2	330.5	4752.0 10.0	44323.3				45417.1	26.5
COUNTY: 25 ERIE+ PENNSYLVANIA	MAXIMUM FILLAGE (TDVS) (TONS/ACRE)	6097.6 7102.7 6164.6 1340.1 3519.4 3.4 3.9 3.4 .7 2.0	4991.5	17788.3	357.2	80 * 00 M	1760.0	-1	ACRESI	ACRESI	ACRES)	31319.4	4.64
TY: 25 ERTE	UINTER COVER CROP (TDVS)	6164.6 3.4	22941.0	17597.0	608.6 .9	326.9	A096.0 17.1	55754.1	948.9 (ACRES)	2688.5 IACRES)	790.7 (ACRES)	61231.0	1.0
MACC	FALL DLOWING DULY (TDNS) (TONS/ACRE)	7102.7	26455.1	20274.8	701.2	376.7	9528.0	64238.5	JATER ARÇA ONLY	JTHER LAND JSE AREA	MISSING DATA	69926.2	-13.1
CONVEAUT. 34	/A A		22711.4	17405.7	602.0	323.4	16.9	35148.1	) ACRE)	ACRES	2.3 (TONS) 41' 2.7 (ACRES) *19 (TONS/ACRE)	60510.0	2.0
JANCO	LOSS TO T PLOBING AND EXISTING ONLY (TDNS) (TDNS) (TDNS) (TONS/ACRE) (FONS/ACRE)	5435.3	15711.0	12809.9 3.0	615.2	330.5	1621.0	37522.9 2.R	497.5 (TONS) 158.2 (ACRES 2.89 (TONS)	178.8 (TONS) 1225.6(ACRES) .14 (TONS)	3202.3 16842.7	SS EROS 42546.9	31.2
COMMEAUT CREEK	GROSS LEGROSION A LEGROSION A LEGROSION A LEGROSION A LEGROSION A LEGROSION C	6231.6	23210.6	17788.3	615.2	330.5	8184.0		619.5 156.1 3.92	170.R 1225.6 .14	3282.3 16842.7 .19	POTENTIAL 61852.2	0.0
345IN: COUNE	3 3SN ONET	340PLAND 543	STOPLAND STG 2	CROPLAND S45	CROPLAND S46	CAOPLAND S46 5	CROPLAND S46 10	1I 333PLAND	FINEYARDS AND ORCH.	STASSLAND STO PASTURE	JOODL AND	SJMMARY TOTAL POTENTIAL GRO 61852.2	FREENT REDUCTION:

LAKE ERIE WASTELATER MARAGEMENT STUDY U.S. AAMY CORPS OF ENGINEERS. RUFFALO DISTRICT LAND MARAGEMENT ALTERNATIVES : BEST HAMAGEMENT PRACTICE SCEWARIDS H: COMMEAUT CREEK COMMEAUT. DY COMMEAUT. DY

ONINE	3452h: CONNEAUT CREEK	CONNE	COMMEAUT. 3M	# P D D	COUNTY: 27 CRASE	27 CRANFORD, PENNSYLVANIA	VANIA		
EX1571 6A055 ER0510 (TOMS)	ENISTING POT- GROSS EROSION (TOMS)	EDUCE SOIL OSS TO T ND EXISTING TONS)	SPRING PLOWING ONLY (TOWS)	FALL PLOUING ONLY (TONS)ACRE	LENTER RCOVER RCOVER RCONDP T T TONS/ACRE)	MAXIMUM AEDUCTION TILLAGE (TONS) (TONS/ACRE)	AXIMUM REDUCED EDUCTION INLAGE: LLAGE CHISEL PLOM TONS/ACRE) (10MS/ACRE)	5016 #687. 543UP 6440 AREA (4685)	EXISTING SDIL LOSS > 7 FACTOR (ACRES) (TOWS/ACRE)
<u>.</u>	12192.7	**************************************	11687.9	14774.0	12192.1	353.0	8077.7	2498.9	2450.8
	32175.2	22871-1	31368.9	37+61.4	32173.2	8847.6	21514.8	7512.0	1156.2
	7557.5	7557-5 2-8	7368.6	#785.6 3.5	7551.5	7557.5 2.8	1557.5	2688.5	00
	1161.5	1181.5	1152.4	1373,5	1161.5	782.8	782.8	1304.7	5 9 C
	9942.4	9942.4	9693.8	11558.0 1.1	9902.0	9942.4	9942.4	10556.3	9 A
	4977.4	1828.0	6803.2 24.6	8111.5	6977.6 25.2	1918.H 6,9	16.7	276.8	276.A 25.2
<u>:</u>		51086.9	68274.4	81404.0 81404.0	70024.9	32402.1	52297.3	21329.1	
	368.6 197.7 1.86	368-6 197-7 196-6	(TONS) JA (ACRES) AR (TONS/ACRE)	JATER Area only	474.4 (ACRES)	ACRE S)			
	2669.4	345.0 (TUNS) 2609.4(ACRES). .13 (TONS/AC	Q.	JTHER LAND JSE AREA	+783.9 (ACRES)	ACRES?			
	4661.9 26292.0 .18		(TUNS) 41 (ACRES) (TONS/ACRE)	4155ING DATA	2135.0 (ACRES)	ACRES)			
	SJERARY TOTAL POTENTIAL OF		N 76773.6	9.423.0	055 ER0510N 588999.4 76773.6 94823.0 78593.4 59481.1 1.1 1.4 1.6 1.6 1.4 .7	59481.1		56363.2	
	SEACENT REDUCTION: 6.8	25.1	2.3	-15.1	0.0	49.6	23.4		

**X** 

LANG ERIE LASTELATER MANAGEMENT STUDY U.S. ARPY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management Altendatives: Rest Management Practice Scruarius

200 :XIST	CONNEAUT CREEK	PACO D	CONSEAUT. OF	CRUMIN	11: 95 111	PS FIL IN BASIN			
350 025	EKISTING POTAL	T.REDUCE SOIL SPRINS LOSS TO T PLOWIN AND EXISTING ONLY (TONS) (TONS)	L SPRIVS PLOWING No DNLY (TONS)		LINTER COVER CRNP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)		EDUCE) 531L 46MT.  ILLAST: 343.P LA40  MISCL PLOW AREA  TONS) (4C4ES)	FEESTING STE LOSS STE EOSS STEEDS TACRES (TOUS/ACRE)
	19609.0	15120.4	19150.4	22698.3			-	5411.8	\$.06T4
CROPLAND S46 2	64639.7 3.8	46323.8	63181.9	7 496 3.4	54390.1 3.8	17541.5	42967.3	15720.0	14056.0
CROPLAND S43 3	25486.9	20568.5	24913.0	29229.7	25295.6 3.5	25486.9	25486.3	7280.0	4276.0
CROPLAND S46	1796.8	1796.8	1754.0	2074.8	1796.2	1140.6	1146.3	2016.4	0.0
SAS PLAND	10+36.5	10436.5 •9	19178.1	12131.1	10433.0	30436.9	10435.5	11898.2	0.0
CROPLAND S46 10	15161.6	2649.0	14811.2	17439.5	15073.6	3678.8	9374.7	751.2	751.2
	137130.5	-I	133988.6 3.0	158586.8 3.58586.8	136524.5	63450.7 1.4	102149.3	41285.5	
VINEYARDS AND ORCH.	1399.9 723.2 1.94	1141.9 723.2 1.58	(TONS) (ACRES) (TONS/ACRE)	JATER AREA ONLY	1721.9 (ACRES)	ACRES)			
STASSLAND AND PASTURE	789.0	769.0 (1345) 7004.0(ACRES) .11 (TONS/	ACRE)	JTHER LAND JSE AREA	10205.1 (ACRES)	ACRES)			
JODE AND	8934.8 50134.4	8934.6 50194.4	ACRES	WISSING DATA	6768.6 (ACRES)	ACRESI			
SJAMARY TOTAL POTENTIAL GR 158061.6 2ERCENT REDUCTION:	POTENTIAL   POTENTIAL   158061.6   1.5	67055 EROSION 115100.4	154711.0	180994.9	157415.5	7.50267	120765.1	180994.9 157415.5 79507.7 120765.1 100957.9 1.7 1.4 .7 1.1	
	:	27.2	2.1	-14.4	•	1.64	23.5		

LAKE ERIE WASTEJATER MANAGEMEYT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALJ DISFRICT Land Management Alternatives : Best Management Practice Scenarius

SASIN: RACCOON CREEK	CALLA		M. STRINGVILLES TO				#100m #1 754		
380 USE	EXISTING POT- GROSS EROSION (TONS) (TONS/ACRE)		REDUCE SOIL SPRING LOSS TO T PLOAING AND EXISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	FALL PLOUING JALY (TONS)	EINTER COVER CROP (TONS)	FALL WINTER MAXIMUM PLONTNE REDUCTION JALY CROP FILLAGE (TONS) (TONS) (TONS) (TONS) (TONS)		ILLAGE: GASUP LAND ALSEL PLAN ARG TONS) (ACRES)	(1045/4CE) (1045/4CE) (1045/4CE)
CROPLAND S46 1.	173.0	173.0	169.3	197.2	171.2	31.2		11806	0.0
CROPLAND S46 2	1301.7	1225.6	1273.7	3.6	1287.7	279.9	755.8 1.3	* . U & H	4.20 8.00 8.00
ROPLAND		-	1390.6 1443.0 1680.8 2.7 2.8 3.3	1680.8	1458.9	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	956.3	0.418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JINETARDS And ORCM.	 	0.0 (TONS) 0.0 (ACRES 0.00 (TONS)	ACRE	JATER Area only	0.0	0.0 (ACRES)			
TASSLAND Lyd pasture	79.0	6.8 (TONS) 79.1(ACRES) .09 (TONS)	ACRE)	JTHER LAND JSE AREA	158.1 (ACRES)	ACRES			
JOODE AND	269.3 1067.5 .25	•	59.3 (TOMS) 415 57.5 (ACRES) .25 (TOMS/ACRE)	41SSING DATA	3.6	0.0 (ACRES)		269.3 (TOMS) 41SSING DATA 0.0 (ACRES) 1067.5 (ACRES) .25 (TOVS/ACRE)	## ## ## ## ## ## ## ## ## ## ## ## ##
SJAMARY TOT	SJAMARY TOTAL POTENTIAL 1750.8	<b>-</b> .5	× 1719.1 1.0	1956.9	1735.0	593.2	1132.4	1660.6	
PERCENT REDUCTION:	DUCTION: 0.0	**	1.9	-11.8	6.	66.1	35.5		

LAKE ERTE WASTEMATER MANAGEMENT STUTY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives : Rest Management Practice scenarios

BASIN: MILL CREEK	CREEK	ER 15 + PA	4	2000	TY: 26 LRIL	COUNTY: 26 ERIL PERMSYLVANIA	I'A ALL TH BASTH	WSTI	
	CAISTÍNG POT GROSS ERGSION (TONS)	•	PEDUCE SOIL SPRING LOSS TO T PLUNING AND EVISTING UNLY (TONS) (TONS/ACRE) (TONS/ACRE)	FALL PLONING ONLY (TONS) (TONS/ACPE)	CACC CROPS CRO CROPS CROPS CROPS CROPS CROPS CROPS CROPS CROPS CROPS CROPS CRO	46×1 460U 71/L 6704 6704	F-0	SOIL MEMT. BADUP LAND AREA (ACRES)	CA157146 5314 4058 5 7 FACTOR 6 ACRES)
CAOPLAND S46 1	596.1	-[	563.3	619.4	589.7	128.2	346.1	266.9	)
SASPLAND 343	306.7	296.7 I.7	300-1	349.6	363.4	0.99	178-1	177.9	8.00 8.10
CTOPLAND S46 3	1392.4	9 0 0 0 0 • 6	1362.4	1587.0	1377.4	1392.4	1342.4	266.9	266.9
SASPLAND S46 10	2193.9	266.9	2145.7	2500.6	2170.3	471.8 5.3	1273.9	•	20.0
CROPLAND		1960.3	4392.5	5116.5	1	2058.4	3194.5	400.7	
FINEYARDS and drch.	969.9 355.8 2.73	355.4 (1)	(TONS) JATER (ACRES) AREA (TONS/ACRE)	JATER Srea only	9.68	89.0 (ACRES)			
JASSLAND AVD PASTURE	248.1 711.7 .35	248.1 (TONS) 711.7(ACRES) .35 (TONS)	ACRE	JTHER LAVD JSE AREA	2046.0 (ACRES)	ACRES)			
JOOLAND	556.7 1779.2		(TONS) 41S (ACRES) (TONS/ACRE)	TISSING DATA	89.0 (ACRES)				
SJ44A4Y TOTAL POTENTIAL 6416-6 1-7	3,4444Y TOTAL POTENTIAL 18.7	- G		7059.5	6367.2		5086-1	\$736.1	
'stermi meducijum:	0.0	* 9 *	1.5	-10.0	•	39.8	20.7		

LAME ERIE WASTEMATER MANAGERENT STUDY U.S. ARMY COKPS OF ENGINCERS, BUFFALD DISTRICT Land Management Altervatives : Hest Management Practice Scenatios

	EQUCTION TILLGE: 331L MGMT. EAISTING SOLUTION TILLGE: 331L LOSS SILLGES TILLGE: CHISTLE PLAND AREA > T FACTOR TONS (CMES) (CMES) (TONS) (TONS) (TONS ACRES)		1112.0 0.0	3335.9 6.6	9.33.6	0.0	1178.7	21083.0			]	E - 224 E C - 244 E C - 24
	REDUCED 11LLAGI: CHISTL P.JU (TONS) (TONS/ACRI)	20336.5	1758.5	8191.1 2.5	125.8	1.99.1	15486.4	46027.5 2.2			0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
. NEW YORK	44XIMUM AEDUCTION TILLAGE (TONS) (TONS/ACPE)	5349.5	5.9.6 5.	8191.1 2.5	123.H	149.1	4839.5	29202.6	(ACRES)	(ACRES)		33408.0
COUNTY: 29 ERIE+ NEW YORK	MINTER COVER COVER CONS) (TONS)	30795.3 26945.6	2335.6 2.1	2.5	164.4	1.4.	2.567.9	58393.7 2.8	1550.6 (ACRES)	5426.4 (ACRES)	- F	*
. Cours	4 4 9 5	30795.3	2665.4	9347.5	197.5	170.2	23471.6	57019.7 66637.6 2.7 33.2	AATER Area omly	)THER LAYD JSE AREA	MISSING DATA	H3139.1 7
DA.NY	SPR 1NG PLOWING G OMLY (TONS) (TONS/ACRE)	-1	2280.7	7998.4	160.5	145.6	20085.9	57019.7	(TONS) 15 (ACRES) 48 (TONS/ACRE)	ACRES	ACREJ	72834.5
K GOLANDA.NY	AEDUCE SOLL SPRING LOSS TO T PLOUIN AND EXISTING OMLY (TONS)	26985.6	2335,6	8191.1	164.4	1.9.1	3536.1 3.0	41361.9	262.1 (311.4 (	525.6 (TONS) 3224.7(ACRES) • 16 (TUNS)	10183.4 18303.0	80SS EROSI 56069.2
IRAUGUS CREEL	EXISTING POT- GROSS FROSION (TOMS)	26945.6	2335.6	8191.1	164.4	1.99.1	20567.9	58393.7 2.8	282.1 511.4	525.6 3224.7	10183.4 18383.0	1 POTENTIAL 74310-0
BASIN: CATTARAUGUS CREEK	B DSC GART	1	CADALAND SYS	CROPLAND 346	STOPLAND	CAOPLAND	PLANG	CAOPLAND	JINEYARDS	GLASSLAND AND PASTURE	4300LAND	SJMMARY TOTAL POTENTIAL G

LAKE ERIE WASTEWATER RANAGEMENT SIULY Land Management Alternatives ; pest Wannsineit Practice Schwarics

					00-1-10-1-10-1-10-1-10-1-1-1-1-1-1-1-1-	Profices 331		54145
	EDUCF SOLL SPRING OSS TO T PLODIN ND EXISTING ONLY TOVS) (TONS) TOVS/ACRE) (TONS/	6 E 8 C 8 E 9	PLOUING COVER ONLY (1708) (1708) (1708)	WINTER COVER CROP (TONS) (TONS/ACRF)		TILLAGE: CMISEL PLOM (TOMS)	. ( 440 . ( 5)	S712 LDS5 S712 LDS5 7 FACTOR (ACRES) (1045/ACRE)
132448.3		92449.2 139705.6	149875.7 13248.3 4.9 4.8	132448.3	15299.8	51410.3		30825.8
	15647.9	3+0+3.1	39036.0 6.8	34497.0 6.0	*766.0	13390.3	5715.5	5137.3 6.7
	70786.1 3.0	182364.E	209111.7	18+796.4 7.8	184796.4	184795.1 7.9	23596.0	23596.8 7.8
	2468.6	2686.8 3.3	3080.9	2722.6	1056.8 1.3	1056.9	422.9	A22.9 5.5
	1422.2	1403.5	1609.4	1422.2	1422.2	1422.2	1801.4	00
	23907.3	205620.3 25.5	235777.9	208361.9 26.0	28786.9 3.6	80877.3	A028.4	8628.4
_	206733.3	556824.1 7.9	63849245 63849245	564248.4	239127-1	332953.3	70799.0	J
	711.6	(TONS) JATER (ACRES) AREA (TONS/ACRE)	dater area only	2935.6 (ACRES)	ACRESI			
	.2585.1 (TONS) 12409-6(ACRES) -21 (TONS)	ACRE)	JTHER LAND JSE AREA	15322.9 (ACRES)	ACRESI			
	35445.0 (10MS) T1811.1 (ACRES)	ACRE)	MISSING DATA	9373.7 (ACRES)	ACRESI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9373.7 (ACRES)	8 9 8 8 8 8 9 9 9
	SJMMARY TOTAL POTENTIAL GADSS EROSION 639058.9 260711.6 3.9 1.6	631201.9 53201.9		639058.P 5.9	294993.0	394287.8	164794.1	
	2.65	1.2	-12.3	0*0	E. S.	39.5		

LAME ERIE WASTEWATER MANAGEMENT STUDY
U.S. ARMY CORPS OF ENSINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: HEST MANAGEMENT PRACTICE SCEVARIOS

BASIN: CA	CATTARAUGUS CREEK		GOLANDATA	Cour	14: 31 "YO	COUNTY: 31 AYOMING, NEW YORK	*		
LAND USE		EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO T PLOUIN EROSION AND EXISTING ONLY (TONS) (TONS) (TONS)	SPRING PLOWING G ONLY (TONS) (TONS/ACRE)	FALL PLOWJWG DNLY (TDVS) (TOVS/ACRE)	300	2 & F	TILLAGE: CHISEL PLO (TOWS)	••	E41571N6 S)1L LDSS > 7 FACTOR (ACRES)
1.1.2PLAND 5.46 1	30264.2	25101.5 29698.5 3.0 3.5	-1	34224.0	30264.2	1355.9 1355.9	19235.3		8362.0 3.6
STOPLAND STS 2	4067.5	1067.5	3591.5	1.688.1	4067.5	988.4	2583.3 1.5	1690.2	00
CROPLAND S46	14689.3 2.8	14689.3 2.8	14414.7	16611.3 3.1	14689.3	14689.3 2.6	14683.1	5337.5	0.0
346 4	809.1	809.1	793.9	914.9	604.1	514.2	514.2	1512.3	
CROPLAND 346 5	151.8	151.6	149.0	171.7	151.6	151.8	151.8	533.7	0.0
313PLAND 546 10	10723.9	2461.9	10523.5	12127.0	10723.9	2605.8 3.3	6615.2 3.3	9.008	800°6 13°4
1		47221.1	59571.1	68646.6	-1	26303.4	43988.9	18325.5	
VINEYARDS And orch.		0730	(TONS) JA (ACRES) JRI (TONS/ACKE)	JATER Jréa only	1156.5 (ACRES)	(ACRES)			
STASSLAND And Pasture	478.9 6.558.9	478.9 (TONS) 4358.9(ACRES) .11 (TONS)	ACR!)	)IHER LAND JSE ARFA	2935.6 (ACRES)	(ACRES)		٠	
4300LAND	1747.8 10852.E	1747.8 (TONS) 10852.8 (ACRES) -16 (TONS/A	17.8 (TONS) 41: 12.8 (ACRES) 15 (TONS/ACRE)	41551NG DATA	* CC C. *	MGG.E CACRES)			
SJHHARY TO	SJMMARY TOTAL POTENTIAL GROSS EROSION 64934.8 50628.2 63273.9 72567.2 1.9 1.5	64055 ER0510 50628.2 1.5	6.4273.0	12567.2	64434.7	64434*r 29211.2 47318.9 54357.5	47319.9		
PERCENT REDUCTION:	DUCT 10N: 0.U	21.4	1.	-12.0	.) (3	54.7	26.5		

LAME ERIE WASTRUATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. RUFFALO DESFAECT Lamb management alternatives : Rest Management Practice «Cemarics

3451N: CATTARAUGUS CREEN	ATTARA	UGUS CREE		GOURNDA-NY	₩AC J	TY: 55 ALLE	COUNTY: 55 ALLEGANY, NEW YORK	24.6		
350 081	FROSS FROSS	EXISTING POT- FROSS EROSION (TONS)		REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS) (TONS) ACRE) (TONS/ACRE)	4	30,000	I C		SOLL MENT. GROJP LAND AREA (ACRES)	EXISTING \$116355 > 7 FACTOR ( ACRES)
STOPLAND 3	7	2419.3	<b>—</b>	1601.2 2397.4	2737.6	2419.3		93941	90001 90001	933.7
STOPLAND	n	2054.7	1968-1	2027.7	2125.1	2054.7	2050.7	2051.7	522.7	5.5
1		4474.0	-	-1	5062.7	4474.0	3469.3 4415.1 5062.7 4474.0 2588.9 2993.9 3.0 5.8 5.8 5.4 5.4 5.9 5.1 5.5	-1	1-156.1	***************************************
VINEYARDS And Orch.		000	990	0.8 (TONS) JA 0.9 (ACRES) AR 0.90 (TONS/ACRE)	JATER AREA ONLY	9.0	0.6 (ACRES)			
JASSLAND AND PASTURE	¥	266.9	9.2 (TONS) 266.9(ACRES) .03 (TONS)	ACRES	JTHER LAND JSE AREA	266.9 (ACRES)	ACRES)			
70005440	,	185.2 1156.5	71		4 ISSING DATA	1245.4 (4CRES)	ACRES)			
SJAHARY TOTAL POTENTIAL 6919-1	01AL P	JAHARY TOTAL POTENTIAL 6919-1	6ROSS EROSION 5429.4	_	7792.9	6919.1	3827.4	4724.3	6A31.8 7792.9 6919.1 3827.4 4724.3 3925.2 1.8 2.0 1.8 1.0 1.2	•
PIRCENT REDUCTION:	EDUCTI	9.0	21.5	1.3	-12.6	0.0		31.7		

LAKE ERIE MASTEMATER MAMAGEMENT STUDY U.S. ARMY CORPS OF ENJINCERS. BUFFALO DISTRICT Lamo mamagement altermatives : Best Mamagement Practice scenarios

	F 0 15 11 NG 50 1L LOSS 50 1 F ACTOR 1 ACRES (10 NS 1 ACRE)		5137.V	2+21A.7	8 - 62 - 8 8 - 8 8 - 8	0.0	10007.7					
		54531.0	9517.7	32892.1	2568.7	2735.5	1.007.1	111352.7			•	882073.2 785562.1 361636.7 507902.4 249925.5 3.5 5.2 1.5 2.3 2.3
	£ = 0 0 0 0	91901.7	17733.9	209731.1	1691.7	1723.2	103179.9	+25963.7 \$55963.7				507902.4
IN BASIN	AAKIYUM REDUCTION TILLAGE (TONS) (TONS)	32336.5	6304.0	209733.4	1.994.7	1723.2	36232.2 5.6		ACRES)	ACRESI	ACRES)	361636.7
IY: 62 ALL IN BASIN	30000	192117.2	40530.1	209731.4	3696.1	1723.2	239653.6 23.9	778840.2 687821.0 286022.0 7.3 6.2 2.6	5648.6 (ACRES)	23951.8 (ACRES)	14166.5 (ACRES)	785562.3
COUNTY:	FALL PLOWING DNLY (TONS) (TONS/ACRE)	217632.5	46301.1	237395.5	4193.4	1951.2	271376.5	178840.2 7.3	WATER BRF4 DULT	JTHER LAND JSE ARFA	FISSING DATA	862073.2 3.5
)A • M Y		169142.0	40315.2	206805.6 6.3	35+1.3	1698.1	23£227.6 23.6	677629.8 6.1	(TONS) JATER (ACRES) ARFA (TONS/ACRE)	ACRE)	7.5 (TONS) #15 3.3 (ACRES) .47 (TONS/ACHE)	774967.3
K GOWANDA . NY		146137.4	22101.1	95536.5 2.9	3442.0	1723.2	29845.3 3.0	298785.5 677629.8 2.7 6.1	1283.4 (1 1023.0 (A 1.25 (1	3598.8 (TONS) 20260.1(ACRES) .18 (TONS)	47557.5 (TONS) 102123.3 (ACRES)	1805S EROSION 774967.3 373049.7 774967.3 1.5 3.1.
SASIN: CATTARAUGUS CREEK	GROSS EROSION (10NS)	546 1 3-2137.2	46988.1	209731.4 6.4	3696.1	1723.2	239653.6		1023.0 1.84	3598.8 20260.1 •18	47557.5 102123.3	SJAMARY TOTAL POTENTIAL GROSS EROSIO 18552.1 373049.7 3.2 1.5 9.2ACENT REDUCTION:
SASIN: CATT.	350 011	CLOPLAND	SAOPLAND	STOPLAND 3	333PLAND S46	CROPLAND S46 5	340PLAND SMG 10	CROPLAND	JINEYARDS NJ ORCH.	SAASSLAND 140 pasture	GWP TQ00P	SJAMARY TOTAL POTE 1855 PEACENT REDUCTION:

LAKE ERIE MASTEMATER MANAGEMENI STUUV Land management altfrnatives : "FST "Anks?"Ment Practice scenarios

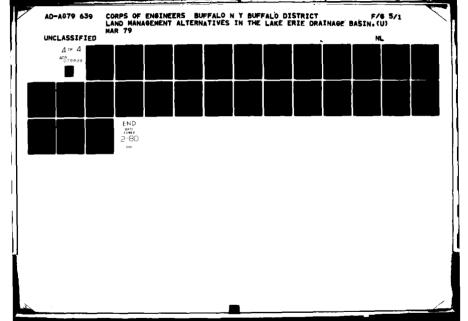
3451N: 5.F	S.BR. CATTARAUGUS	VV .CTTC SL	<b>*</b> 7	SUNNES	17: S1 C471	ST CATTARAUGUS. NY CINNALID SOILSD	CLARALID SOLI	11.53	
LAYD USE	EXISTING POT GROSS GROSION (TONS) (TONS/ACKE)	•	0.5,500	FALL PLOUING PALY ITDNS)	300	1011 1011 1011	* L U U U .	• 0	
CROPLAND SYS 1	11869.3	7272.3	11713.1	15431.3	11269.3 14.9	1639.8	4607.2	2424.1	2024.1
STOPLAND SMG 2	4035°5	1923.1 2.6	3982.4	4566.5 5.2	4035.5 5.5	557.5	1565.1	733.9	522.7 6.4
SROPLAND SRG 3	21917.2	9807.6 3.0	2162A.A 6.6	24831.1	21917.2	21917.2	21317.2	3269.2	3269.2
CROPLAND SWG +	426.1 3.A	355.6	423.5 3.8	492.2	426.1 3.A	165.4	165.4	111.2	3.11.2
CROPLAND S46 5	206.4	206.4	203.7	233.5	206.4	206.4	206.1	266.3	0.0
STOPLAND STG 10	21868.0 25.9	2535.3	21580.3 25.5	24745.4	21868.C 25.9	3021.2	10.0	145.1	25.9
CAOPLAND	60322.5	22078.3	54528.8	-1	-1	-1	36950.9	1650.4	
VINEYARDS And orch.	137-1	126.8 (111.2 (111	(TONS) VA (ACRES) 1R: (TONS/ACRE)	WATER Area only	355.8 (ACRES)	ACRES)			
32ASSLAND AVD PASTURE	1334.4	308-1 (TONS) 1534-4(ACRES) -23 (TONS)	ACRE,	STHER LAND JSE AREA	1512.3 (ACRES)	ACRESI			
JODEAND	1586.9		0.9 (TOMS) 41: 7.6 (ACRES) .39 (TOMS/ACRE)	HISSING DATA	845.1 (ACRES)		•		
SUMMARY TOTAL SECULO	SUMMARY TOTAL POTENTIAL SUMMARY TOTAL POTENTIAL SESSION REDUCTION:	6AUSS FANSION 65512.7 74805.0	6:512.7	74605-0	66357.5 31432	<b>15</b> 70	:	13998.7	
	0.0	61.3	1.3	-12.7	ů•0	52.6	37.5		

LAKE ERIE WASTEWATER MANAGEMEN? STUDY U.S. AKMY CORPS OF ENGINEERS, BUFFALO DISTRICT Lard Hanagement alternatives : best management practice scenarius

LAND USE EX									
, <del>~</del>	EXISTING POT. GROSS EROSION CTONS!	EDUCE SOIL 355 TO 7 ND EXISTING TONS) TONS/ACRE)	SPRING PLOUING ONLY (TONS)	F 5	3000	E E - V -	& F U	SOIL MEMI. 643JP LAVD AREA (ACRES)	241571346 531L LOSS > T FACTOR (ACRES) (TONS/ACRES)
[]- 23.30LAND 346 3	1106.4	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1000.3	1262.5	1106.4	260.3	633.6	9.69.8	222.4
CLOPLAND 546 2	184.1	1.1	1.1	552.4	1.1	9.88. 8.8	8.698	422.5	
C13PLAND S46	2311.6	2311.6	2257.2	2637.3	2311.6	2311.6	2311.5	1134.2	9.9
CAOPLAND 4	\$ ·	6.		10.1	 	6.3	1.3	22.2	0 ° 6
CAOPLAND S46	18.8	8.83	184.4	23.4	33 47 00 m	18. 8. 8.	20 20 4 4 4	<b>**</b>	9 • O
CROPLAND S46 10	945.6	200.2 3.8	925.4 15.8	1379-1	345.6	222.5	112.0	1.99	14.2
CROPLAND +875.4	4875.4	3984.2	4760.6	5563.5	4875.4	2933.8	4246.6	2579.7	
VINEYARDS RED DRCM.	14.5	47.6 (7 44.5 (A) 1.07 (7	(TONS) 1A (ACRES) 1R (TONS/ACRE)	JATER IREA DNLY	89.0 (ACRES)	ACRESI			
STASSLAND AND PASTURE	56.9 511.4	56-9 (TONS) 311-4(ACRES) -18 (TONS)	ACRE)	JTHER LAND JSE AREA	622,7 (ACRES!	ACRESI			
4000LAND	185.1	185.7	-	415SING DATA	622.7	ACRES)			
SUMMARY TOTAL POTENTIAL GE	POTENTIAL 5960.3	1055	5827.9	6754.5	5960.3	3720.3 5234.3	5234.3	+576.3	
PEACENT REDUCTION:	0.0	17.3	2.2	-13.3	3.6	37.6	32,2		

LAKE EFIE MASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALD DISTRICT Land Hanagement alterbatives : rest wanagement practice scenarios

desin: 10 Hill Culls	TILL CHEEN							_	
TAND USE	EXISTING POT-R GROSS EROSION (TONS)		EDUCE SOIL SPRING FALL OSS TO T PLOWING PLONING NO EXISTING ONLY TONS) (TONS) (TONS) (TONS)	FALL PLOVING SVLY (TONS) (TCNS/ACF!)	MINTER COVER CROP (TONS) (TONS/ACPF)	MAKIMUM REDUCTION TILLAGE (TONS)	TILLAGE: CMISEL P.D (TONS) (TONS/ACRE	SOIL MEMT. BROUP LAND AREA (ACAFS)	CAISTING SOIL LOSS SOIL LOSS SOIL LOSS CACACACACACACACACACACACACACACACACACAC
S46 1	9702.1 2.5	9644.6	9473.8	11071.k	9644.6 9473.8 11071.4 9702.1 2282.8 2.4 2.4 2.5 6.5	2282.8	7305-1	3358.5	<u>.</u>
CROPLAND S46	1353.5	1353.5	1321.6 2.8	1544.6	1353.5	318.5	1019-1	467.0	
310PLAND S46 3	7401.9	6071.4 3.0	7227.8 3.6	846.9 4.2	7401.9	3.7	7.01.3	2923.3	
S46 4	65.1	65.1	63.6	74.5	65.1	9.6	6.6	0.64	
SAOPLAND 540PLAND	137.7	137.7	134.4	157-1	137.7	137.7	137.7	311.1	
S45 10	15839.3	2312.9	15466.6	18075.4	15839.3	3726.9	11925-1	845.1	
JOPLANO		19585.2	35687.8	39370.1 5-1	34499.6	13916.8	27839.9	7694.9	
VINEYARDS AND ORCH.	126.6 89.0 1.42	126.6 (1 P3.0 (A	(TONS) JA (ACRES) AR( (TONS/ACRE)	JATER Area only	355.8 (ACRES)	ACRESI			
34ASSLAND 14D PASTURE	295.9 1423.3	295.9 (TONS) 1423.3(ACRES) .21 (TONS/	ACP 5)	JTHER LAND JSE AREA	2357.4 (ACRES)	ACRES)			
SODLAND	6140.9 11142.0	6140.9 (TONS) 11142.0 (ACRES) .55 (TONS/A	2.0 (ACRES) 41. .55 (T)45/ACRF)	MISSING DATA	756.1 (ACRES)	ACRES)			
SJARARY TOTAL POTE:	N7 1AL 88.7 2.0	GROSS E40S12N 27120.2 1.3	41746.8	47640,2	055 E40517H 27120.2 41746.8 47640.2 42548.7 21241.2 35680.5 1.3 2.0 2.3 2.0 1.0 1.7	21241.2	35680.5	21105.3	
	0.0	36.3	2.0	-11.9	e • c	50.1	16.2		



Direct Drainage Areas

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF FUGIMEERS. PUFFALO DISTRICT Land management alternatives : 9.55 manaj:ment dractice scevarios

COUNTY: 54 ST. CLAIP, MICHIGAN

BASIN: DIRECT DRAINAGE MAINFIL

	11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			60	90	6 C	1					•
SOIL MGWI. 343JP LAND AREA (ACQES)	4510.0	**5***	11539.9	5670.0	23739.5	5139.9	20536.9 31532.3 92148.9			•	S EROSION A90mo.1 104497.7 90364.R 50744.9 76997.4 279077.8 .3 .3 .2 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	
<b>E</b> - U	-1	12255.2	5747.5	1001.5	5010.5	619.5	31532.5				76997.4	B. •
414779 44814U4 CIVE 4EDUCIION CRIP 11L46E (TONS) (TONS)	2430.1 24.0 2.0 2.0	5219.0	5111.5	1001.6	5010.3	619.6	20536.9	ACUES)	ACRES)	ACRES)	50744.9	43.8
3000		15656.	5747.3	1279.9	5010.3	619.6	37131.3	2330.0 (4CRES)	31459.5 (ACRES)	1621AB.4 (ACRES)	90364.R 90364.8	0.0
4 4 4 4 4	1,0222.9	16152.9	6663°E	1483.9	5.409.0 5.	718.4	36593.2 43050.7	AATER AREA ONLY	JTHER LAND JSE AREA	TISSING DATA	104497.7	-15.6
PEDUCE SCIL SPRIMG LOSS TO T PLDMIMG AND EXISTING DRLY (TOMS) (TONS/ACRE) (TONS/ACRE)	F 689 .5	15430.0	5664.7	1261.3	4937.7	610.7	36593.2	(TONS) JAS (ACRES) 1RE (TONS/ACRE)	ACREI	.3.7 (TONS) 419 9.9 (ACRES) .^4 (TONS/ACRE)	1	•:-
EXISTING POT-PEDUCE SCIL SPRING GROSS LOSS TO T PLUSIN FROSIDM AND EXISTING DALY (TOMS) (TOMS) (1045)	5490.2	15656.4	5747e3	1279.9	5010.5	619.6	34294.2	300.0	235.1 (TONS) 15539.9(ACRES) .d2 (TONS/	SESS T STONS)	680SS EROSION 83591.1	7.5
ERISTING POTAGEOSS FROSION (TONS)	ROPLAND 8817.3 5000.2	15656.9	5747.3	1279.9	5010.3	619.6		316.5 500.6 63.9	235.1 15539.9	363.7 9899.9 90.0	NT1AL 64.6	0.0
SSD GRET	I CROPLAND	CROPLAND 545 2	CROPLAND 546 3	S46 4	CROPLAND 346 5	S45 9	I	VINEYANDS And orch.	374SSLA4D AND PASTURE	4300LAND	SJUMARY TOTAL POTENTIAL 90364.8	PERCENT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF EVGINEERS. BUFFALO DISTRICT Land Management Alternatives: Best Management Practice Scenarius

	Design Circl Designor of	41.81.81							
	EKISTING POT-16 6ROSS EROSION (TONS)	LOSS TO T PLOBING ONLY (TOWS) (TOWS) (TOWS) (TOWS) (TOWS)	PRING PLOWING DNLY TONS F	PLOWING ONLY (TONS)	ELVTER COVER CROP (TONS)	E E	E - 0	SOIL MENT. SROJP LAND AREA (ACRES)	
S46 1	- Jerecenter J.	1	1661.7	1919.9	1661.7	536.8	931.9	4.140	
SROPLAND	11421.7	11421.7	11269.4	13620.7	11269.4	2284.3	6320.3	1,229.8	00
CROPLAND S	4542.0	4542.0 1.5	1481.5	5177.9	1.5	+5+2 • 0 1 • 5	1542.0	0.000	
CHOPLAND 546	2400.0	2460.0	2368.0	2736.0	2368.5	1528.0	1328.3	3160.0	0.0
SAG SAG 5	167.5	107.3	165.9	122.4	105.9	101.3	107.5	286.8	• •
SAG 8		**	67.5	2.e 4.	5.54	. 31.6	4.18	166.0	• •
I		Z0223.5	19954.0	23054.9	19954.0	8636.2	13267.0	21409.8	[
JIVEYARDS And Orch.	24.0 80.0 48.0	27.3 (TONS) 80.0 (ACRES)	ACRE)	JATER 1REA DNLY	770.0 (ACRES)	ACRESI			
STASSLAND AND PASTURE	214.7 15239.9	214.7 (TONS) 15239.9(ACRES) .01 (TONS)	ACRE)	JTHER LAND JSE AREA	40839.6 (ACRES)	ACRES)			
JOODL AND	65.2 2940.0	65.2 (TONS) 2940.0 (ACRES) .02 (TONS/A		HISSING DATA	10859.9 (ACRES)	ACRES)	•		
JAMANY TOTAL	SJAMAAY TOTAL POTENTIAL GA 29775-2	GAOSS EROSION 25775.2	25436.9	29329.9 8.62895	25436.9	11228.0	17041.7	0SS FROSION 25436.9 25436.9 11228.0 17041.7 53569.6 .5 .5 .5 .5 .5 .5 .5 .5 .5 .2 .3	1
PIACENT REDUCTION:	UC 110M:	0.0	1.3	-13.8	1.3	56.4	33.9		

LAKE ERIE MASTEJATER MANAGENEUT STUDV U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTATOT Land Management Alternatives : Post Management Practice Scenarios

COUNTY: 17 CAKLAND, MICHIGAN

BASIN: DIRECT DRAINAGE MAINFIL

(

EX 15 1 W6 5) 11 LOSS 5 T FACTOR (ACRES) (TOUS/ACRE)							
SOLL MEMT. Stoup Land Area (acres)	TUPLAND 6.2 6.2 6.1 7.5 6.2 2.0 4.7 20.0					S ERUSION 6686.6 8223.6 6798.2 2193.0 5153.3 21729.7	
TILLAGE: STUP TILLAGE: STUP CHISEL PLOW AREA (TONS) (ACRE					•	5153.3	24 • 2
FALL WINTER MAXIMUM PLOUIS COVER REDUCTION ONLY CROP TILLAGE (TOUS) (TONS) (TONS/ACRE)	2.0	2.0	D.O (ACRES)	0.0 (ACRES)	ACRES)	2193.0	67.7
UENTER COVER CROP (TONS)	1 N m	6.2	0 • 0	0.0	21909.7 (ACRES)	679A.2	0.0
FALL PLOUING ONLY (TONS) (TONS/ACRE)		7.5	JATER AREA OWLY	JHER LAND JSE AREA	MISSING DATA	8223.6	-21.0
SPRING PLDWING GONLY (TONS)	6.1	6.1	(FE)	ACRE)	0.0 (ACRES) 418 0.0 (ACRES) 0.00 (TOVS/ACRE)	6688.6	1.6
REDUCE SOIL SPRING LOSS TO T PLOWING AND EVISTING ONLY (TONS) (TONS/ACRE) (TONS/ACRE)	6.2	6.2	0.0 (TOWS) 0.0 (ACRES) 0.90 (TOMS/AC	0.0 (TONS) 0.0(ACRES) 0.00 (TONS/			0.0
GROSS LOSS TO T PLOUISY EROSION AND EVISTING ONLY (TONS) (TONS) (TONS)	6.2	6.2	000	0000	0.0	SJAMANY TOTAL POTENTIAL GROS 6794.2 5.34 3.3	CT 10N:
. avo use	I TOPLAND 346 1	TOPLAND	VINEYARDS AND ORCH.	SRASSLAND AVD PASTURE	JOODLAND	SJAMARY TOTAL	SERCENT REDUCTION:

LAKE ERIE WASTEWATER NAMAGEMENT STUDY Land Mamagement Altermatives : Best Management Fractice scenarios

3451h: 01A	SASIN: DIRECT DRAINAGE MAINFIL	na inf il		(MUC)	COUNTY: 43 MAYNE. MICHIGAN	E. MICHIGAN			
. A 40 USE			REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	LINTER COVER CROP (TONS) ACRE)	COVER REDUCTION COVER REDUCTION CROP TILLAGE (TONS) (TONS)	4EDUCES CHISTL PLOU (TONS) (TONS)	SOL MENT. Stor Land AREA (ACRES)	E
340PLAND SMG 1	1550.3		1541.1	1713.3	1558.3	1265.8 1541.1 1715.3 1558.3 292.7 817.9 1088.8 1.2 1.4 1.6 1.4 .3 .5	6.710	e-eec	30.0
S46PLAND 2	14566.2	14566.2	14405.2	16014.8	14566.2	2736.2	7645.2	16559.3	
STOPLAND	3266.1	3266.1	3230.0	3590.9 6.0	3266.1	1714.3	1711.5	6120.0	00
CROPLAND S46 5	146.1	1+0+1	138.6 8.	154.1	140-1	1.0.1	1.04	170.0	9 9
ITTOPLAND	1.00PLAND 19556.7		9.4.891	21473.1	19530.7	19238.2 19314.9 21473.1 19530.7 4863.3 10317.5	10317.5	24229.3	• • • • • • • • • • • • • • • • • • •
JIVEYARDS AVJ ORCK.	4 & 4 & 6	44.9 (TONS) 90.0 (ACRES) .50 (TONS/A	CRES	JATER AREA JALY	610.0 (ACRES)	ACRES)			
STASSLAND AND PASTURE	120.1 23539.8	420.1 (TONS) 23539.8(ACRES) .02 (TONS)	ACRE)	JHER LAND JSE AREA	34935.6 (ACRES)	ACRESI			
4000LAMD	9000.1		10.1 (TONS) 41 19.9 (ACRES) .02 (TONS/ACRE)	MISSING DATA	88167.2 (ACRES)	ACRES)		200-1 (TONS) 41SSING DATA 80167.2 (ACRES) 9009-9 (ACRES) •02 (TONS/ACRE)	
JANARY TOT	NT 1AL 06.2	- 1k	S0955.E	6:65895	51566.2	14150.3	26009.1	143036.9	•
*ERCENT REDUCTION:	UCT10N:	1.4	1-1	9.6-	3 • 3	72.5	45.6		

LAKE ERIE HASTEMATER MANAGEMFNI STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives : pest manasiment practice scenarius

	501L MCMT.		0 · 0	1920.0	0.00.0	240.3 0.0		22429.9			
, a 4	REDUCED 111146E: CHISEL PLOW (1395)		3060.6 2	3131.2	927.2	60 6. 6. 6. 8.	5 ° ° °	12320.2			S EROSION 24689.2 284480.5 9210.9 15441.5 37459.9 .4 .4 .7 .2 .4 .4 .1 .1 .2 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
AC ACHTIVA MICHIGAS	I &	1919.7	1135.4	3131.2 1.6	427.2	82.8 .3	16.2	7112.5 7112.5 (ACRES)	ACRES)	ACRESI	9210.9
COUNTY: 40 -ASH	300000	9515.6	5627.5	3350.9	1521.0	# 0 # F • 0	8.0	19475.2 71 .9 .9 170.0 (ACRES)	1989.9 (ACRES)	6150.0 (ACRES)	24480.5
NIC 3	4 6 5 5 5	11130.8	6565. •	3559.4	1774.5	94.1	93.4 9.8		JTHFR LAND JSE AREA	ISSING DATA	28443.5
	REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING UNLY (TONS) (TONS/ACRE) (TONS/ACRE)	9598.5	5676.9	3077.7	1534.3	81.4 .5	80.8	6.640	ACRES	(TONS) 41 (ACRES) (TONS/ACRE)	24689.2
44 145 11	UCF SUIL S TO T EXISTIN NS) NS/ACRE)	-I	5775.6 .5	3131.2	1561.0	#2.8 .3	30.0 5.0	8620.3 144.5 520.0	284:2 (TONS) 5500.0(ACRES) .05 (TONS)	157.5 (TONS) 3060.0 (ACRES	GROSS EROSION 22979.1
T PHAINAGE P	EXISTING FOTGROSS EROSION (TONS)	9765.4	5775.6	3131.2	1561.0	A2.8	82.2 P.2	26396.2 99 144.5 320.0	284.2 5500.0 60.0	157.5 3060.0	POTENTIAL 6 25106.2
345IN: DIRECT DRAINAGE MAINFIL	LAND USE E	1	SAGPLAND 2	310PLAND 5	STOPLAND 5	23OPLAND 596 5	S46PLAND	1	31ASSLAND AVD PASTURE	JOOFFAND	

LAKE ERIE WASTEWATER MAMAGEMENT STUDY Land Mamagement alternatives : Best Mamagiment practice scenarios

350 QA-	EXISTING POT- GAOSS EROSION (TONS) (TONS/ACRE)		SPRING PLOJING B ONLY (TONS) (TONS/ACRE)	FALL PLO#1NG ONLY (TOMS) (10NS/ACRE)	JINTER COVER CROP (TONS)	MAKINUM REDUCTION TILLAGE (TONS)	4EDUE) 1111A6: CMISEL PLOU (7ONS) (1ONS/ACRE)	SOL MENT. SROJP LAND AREA (ACRES)	(41571N6 531L LOSS 5 T FACTOR (ACRES)
S46 1	40PLAND 12678.8		12333.9 12634.2	12786.3	12786-3 12678-h	1926.6			3.6.0
SAGPLAND SYG	19889.1	1.0000	37860.A 1.0	40227.1	39869.1 2.6	5746.7	17.09.2	39959.5	9 9
S46 3	1.0279.7	10279.7	38231.6	+ 0621.0 1.9	1.6279.7	43279.7	40279.7	21300.5	
SAG 4	41006.6	41006.6	38921.5	41354.1	*1036.6	17496.9	17895.3	55577.9	•••
CROPLAND S46 5	1214.6	1214.6	1152.9	1224.9	1214.6	1214.6	1214.5	1457.9	•••
1	135066.8		134723.9 128201.0 136213.4 1.1 1.0 1.0 1.1	136213.4	-I		A2334.3	13506H-H 66964.5 A2334.3 126981.4	• • • • • • • • • • • • • • • • • • •
VINEYARDS A4D ORCH.	5.86.4 5.86.4 5.86.4	224.6 (T 586.4 (A .38 (T	(TONS) JAE (ACRES) IRE (TONS/ACRE)	JATER Irea dult	3160.4 (ACRES)	ACRESI			
34ASSLAND Avd pasture	254.1 19837.4	254.1 (TONS) 19837.4(ACRES) .01 (TONS)	ACA.C.)	JTHER LAND JSE AREA	45281.7 (ACRES)	ACRESI			
MOODL AND	326.7 16117.5		(TONS) 415 (ACRES) (TONS/ACRE)	WISSING DATA	143806.0 (ACRES)	ACRES)	,	•	
SJHHAAY TOT			242527.3 .8	257590.3	255438.5	127404.9	156299.0	0SS EROSION 254790.1 242527.3 257590.3 255438.5 127404.9 156299.0 307228.7 8 .8 .8 .4	
PERCENT REDUCTION:	UCT10N:	. 7.	5.1	•	0.0	56.1	36.8		

LAKE ERIE BASTEJATER VAVAREJENT STUDV U.S. BAPY CORPS UF ESCHWERS. RUFFALD DISTAILT LAND RANGEMENT ALTERNATIVES : "EST MANAGEFENT PRACTICE SCHWATS"

350 Ove-	EXISTING POT PRESS EROSION (TDNS)	LUSS LUSS AND CTOW	APRING PLOWING GONLY (TONS)	FALL P_341VG 34LY (TONS) (TONS/ACPE)	FALL 2041R 0041V 2045R 0041V (800P (1005) (10°5)	MAKINUM AEDUCTION TILLAGE (TONS)		\$31L 46MT. 347J2 LAND 44E4 (ACRES)	TKESTING 531L 135S 7 F FACTOR (ACRES)
SAG 1	1095.4	9.00	1643.2	1149.7	1056.5	13056.5 150.9		465.1 1 47.9 2.5	177.9 h-2
240PLAND 343 2	6260.6	6260.6	349864 245	6564.F 2.9	6.032.5 2.6	851.8	2561.1	2312.9	0.0
CROPLAND 546 4	5571.6 1.0	5571.6 1.0	5300.9	5842.3 1.1	5368.6 1.6	236R+5	2369.5	5327.6	90
SASPLAND S43	336.5	336.5	320.1	352. P	324.2	35.6 .5 .5	338.5	572.1	
1	130PLAND 13265.1	12969.3	12620.7 13909.6 1.5 1.6	13309.6	12781.8	3717.7	5932.5	4440.5	
ALUETARDS AND ORCH.	000	0.0 (TOUS) 0.0 (ACRES	) ACRE)	JATER Grea Only	266.9 (ACRES)	ACRES)			
STASSLAND AND PASTURE	266.9	6.3 (10NS) 266.9(ACRES) .02 (10NS)	ACRE)	JTHER LAND JSE APEA	355.8 (ACRES)	ACRESI			
JOOPLAND	17.7	17.7 (TONS) 484.3 (BCRES) .04 (TONS/R	17.7 (TONS) 41 14.3 (BCRES) .04 (TONS/ACRE)	4 ISSING DATA	A9.0 (ACRES)	ACRESI			
JUMBRY TOTA	NT 1AL 17-1	<u>- 6</u>	12766.5	14067.8	12929.1	3777.7	5912.3	ROSS EROSION 12766.5 14067.8 12929.1 3777.7 5912.9 9333.7 13.4 1.4 1.5 1.4 .4 .5	
JERCENT REDUCTION:	0.0	2.2	4.4	6.4-	3.6	71.8	95.9		

LAKE ERIE HASTEVATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT LAND MANAGEWENT ALTERNATIVES : BEST MANASINENT PRACTICE SCEMARIOS

BASIN: DIRE	DIRECT DRAINAGE R	na inf il		COURTY		09 LUCAS, OHIO			
350 080	EXISTING POT-1 GROSS L EROSION (TONS)	MEDUCE SOIL LOSS TO T AND EXISTIN (TOMS/ACRE)	SPRING PLOWING G ONLY (TONS/ACRE)	FALL PLOMENG JALY (TONS/ACRE)	diwith COVER COVER COVER COVER (TONS)	JUNTER REDUCTION TILLAGE: COVER REDUCTION TILLAGE: CROP TILLAGE CMISEL P.DM TONS ACKE, TONS ACKE, TONS ACKE,	REDUCED TILLAGE: CMISEL P.Dd f10MS) 170MS/ACRE)	EDUCED SOLL MENT.  11.66E: 3132 LAUD  MISEL P.34 44E4  10MS) (4CRES)	E
SY6 1	13PLAND 15501.5	6967.0	2+788+B	24788-8 35214-2 9-5 16-4	15085.6	2130.1		1561.7	1334.4
CLOPLAND 346 2	29121.1	29121-1	2,7162.2	30460.0	28390.1	4.910+	12050.1	29563.7	9 6
SADPLAND 3	18607.7	1857.9	17752.1	19453.2	18108.6	18607.7	18607.7	2519.5	2619.3
CROPLAND SV6 +	15972.5	15572.5	14856.6	16288.5	15154.9	8.800	6.643.3	10707.2	• •
SAG 5	1616.4	1616.4	1542.1	1690.	1573.1	1616.4	1616.1	2243.7	• • •
CROPLAND S46 8	22246.9	22246.9	21218.3	23263.5	23644.4	3203.1	9203.1	25919.5	99
CROPLAND		83375.8	97940.1	107380,1 99906.9	6.40666 1.3	42025.H	1.	14655.4	
JINETARDS and orch•	250.3 395.4 .63	250.5 (1 395.4 (4 15 (5)	(TONS) AA (ACRES) AR (TONS/ACRE)	dater Grea only	3133.3 IACREST	ACRES)			
SRASSLAND And pasture	631.8 23573.8	631,4 (19NS) 23573,8(ACRES) ,03 (TONS)	ACRE)	STHER LAND JSE AREA	*9559.4 IACRES)	ACRES)			
GN4 JGCCP	412.8 14542.0	412.8 (TONS) 14342.0 (ACRES	2.8 (TONS) 41 2.0 (ACRES) -33 (TONS/ACRE)	AISSING DATA	46475.5 (ACRES)	ACRESI			•
SJANARY TOTAL	SJAMARY TOTAL POTENTIAL GR	GROSS FROSIUN 119505.0	N 1+6061.2	119505.0 146061.2 153384.9 142837.2 51145.2 78317.5 8	1,2837.2	51145.2	78517.5	1594651	
PERCENT REDUCTION:	UCT10N:	18.6	a• •	è.	2.5	5.46	45.5		

LAKE ERIE DASTEDATER FANAGEHENT STUDY Land Management alternatives : best management practice scenarios

	64151146	> 1 FACTOR	(1045/4CHE)		V * 10.00 E	7	D. 0001		974.5	•••	6.6	0.0	3.9	0.0		0 6	•		6.0	[						1			
	5316 4641.	610J2 LAUR A4EA	1852311	[]	+ + 61.5		24354.7		978.5		29237.5		3.689.					89.0		[	61568.7					8 8 8 8 9 8 8 8 8	S EROSION 7998.9 99725.5 110211.7 97556.0 27504.5 45433.3 71057.6		
	*CONCE)	TILLAGE: CMISEL PLOW			11044.1	~~~	14051.5	.,,	6243.1	9.9	11749.1	•		6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -		183.0	•	101.5	1:1		45151-1	;					45439.5	56.4	
01HC -NC	WAX I MUN	REDUCTION Tillasf		-1	3283.4	٠.	4177.5	~	1.1463	•	11748.1	•			7.1	183.0	•	101.3	1.1				14CRES)		(ACRES)	9.0 (ACRES)	27904.5	13.6	•
COUNTY: 47 FULTON. 3MTG	LIVICA	COVER		TONS/ACRED TIONS/ACRED	26764.6	5.4	34053.0	1.4		5.9	20470.7	1.0	•	1651.0	::	443.6	1.0	6.20	1:1		97267.0	•	2668.7 (4CRES)		7442.8 (ACRES)	0.0	9756.0		1,
COUNT	נוו	PLOUING			30247.0	6.1	10001	1.5	•	6544.4		1.67156		1465.9	1.3	501.5	1.1	. 700	1.2	,	109923.5	7.8.	JATER		JTHER LAND JSE AREA	41SSING DATA	110211.7	1	G . P
	SPR 1 46	PLOUTNG	( TOES)	(TONS/ACRE)	7.141.6	5.5		6 - 2 T S + C		5920.1		29105.7		1687.9	7.7	4.1.4	1.0		1.1		99437.3	9.7		(ACRES) AR	ACRE)	(TORS) 41 (ACRES) (TOUS/ACRE)	N 99725.5		2.6
NA 186 11.		LOSS TO T	(TONS) (TOGS)	(TOVS/ACRE)	[+==++++++ +==++++			51252.1		2935.6	;	306-3.3		1179.9	1.2	6 44	1.1		101.5		7710.7	1.4		0.00	#7.6 (TONS) 28:5-T(ACRES) 592 (TONS)	248.6		7.1	16-3
LAND HEADERFUL ALICANI.	Total Saresty	CROSS	EROSION (TONS)	(TONS/ACRE)		8°50		36711.4	:	6243.1	,	30693.3		1779.9	1.2	•	1.1		101.3	•	100861.2	1.1	0.0	• • •	47.6 28.6.7	200-6	1 POTENTIAL 105109.0		0.0
	JANINE UINEL	.440 USE E			-	CROPLAND		CADPLAND		CROPLAND	9 9	SASPLAND		CR OPLAND	346 5		143PCRN3		CROPLAND				VINEYARDS	AND ORCH.	STASSLAND AND PASTURE	4300LAM0	STREET TOTAL POTENTIAL GROSS 10514944	JERCENT REDUCTION:	

LAKE ERIE MASTELATER NANAGEMENT STUDY U.S. APNY COAPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives : Best Management Practice scenarius

3451N: 01	SASIN: DIRECT DRAINAGE 'HAINFIL	HA 10F 1L		COUNTY	COUNTY: 15 HEMRY, JHEO	V. 3HIO			
380 OM.	CXISTING POL GROSS ENOSION (TONS) (TONS/ACRE)	EASISTING FOT-REDUCE SOLL SPRING GROSS 10 7 PLOUIN ERSION AND EXISTING DALY (TONS) (10NS) (10NS/	SPRING PLOUING TONS) (TONS/ACE)	EDUCE SOIL SPRING FALL 05S TO T PLOWING PLOWING ND ELISTING DULY ONLY 10NS) (TONS) (TONS) 10NS/ACRE) (TONS/ACRE)		E &	#EDUCED TILLAGE: CMISEL P.D4 (TOMS/AC4E)	SDIL MEMT. SADUP LAND ANEA (ACRES)	CAISTING S)11085 > 7 FACTOR (ACRES) (10MS/ACRE)
NOPLAND 345	1189.6	1184.6	1104.5	1184.6 1184.5 1288.3 2.7 2.5 2.7	1096.1	143.5	459.5		
CROPLAND S46	645.9	645.9	602.2	664.3	597.u	. 76.1	250.5	363.4	00.0
SAGPLAND 1	339.4	139.4	316.5	349.1	314.1	131.7	131.7	\$55.8	99
SAOPLAND S46	814.1	114.1	159.1	857.5	153.3	914.1	914.1	593.1	
STOPLAND 9	1832-1	177.9	1706.2	1664.2	1695.2	1832.1	1852.1	÷	49.0
ROPLAND	.	•	3161.9 4490.5	4953.2 4456.3 2.4 2.4 2.2	4456.3		3467.9	2046-1	
/INEYARDS	000	00000	D.O (TONS) JA D.O (ACRES) 1R D.OO (TONS/ACRE)	JATER Srea July		0.0 (ACRES)			
31ASSLAND And Pasture	3.5 266.9 .01	3.5 (TONS) 266.9(ACRES) .01 (TONS)	ACRE)	JTHER LAND JSE AREA	266.9 (ACRES)	ACRES)			
433DLAND	67.9 1334.4	67.9 (TONS) 1334.4 (ACRES)	34.4 (ACRES) -05 (TONS/ACRE)	4 ISSING DATA	9 9.68	H9.C (ACRES)			:
SCHHARY TO	NT1AL 06.8 1.3	GROSS EROSION 4673.2	4673.2	5147.2	4634.2	3145.e	3646.2	5147.2 4638.2 3145.0 5646.2 3736.1	
PERCENT REDUCTION:	0.0	33.8	6.1	-2.4	7.4	11.2	21.2		

LAKE ENIE JASTEUATER MANAGEMENT STULV U.S. ARMY CORPS OF ENGINEERS. RUFFALD DISTRICT Land Management alternatives : Hest Management Practice Scruarins

Mark	PIRECT BRAINASE HAIN	MAINFIL		SAINDES	7	₽900 0HI3			
10.7 10.7	Lat (* L	T.PEFUCE SO. LOSS TO T AND EVICE (TOVS)	II SPRING PLOMING INC YALY (TOAS)	FALL PLONING ONLY (TONS) (TONS/ACRE)	LINTER CONTR CROP (TONS)	MAKINUP MEDUCTION 11LLASE (10%5) (10%5)	REDUCED TILLAGE: CMISCL >_34 (TOMS)	SOLL MEMT. SROUP LAND AREA (ACRES)	7 FACTOR (1045/40E)
10.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	5.03.2	6761.6 5.3	7501.2	6761.6	0 ×6 €	2873.0	19161	345.4
22.0 6.1 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	38865.0 2.9	27206.7	3644.0	40450.9	36000.8	N.0044	15517.5	13294.2	9.00.0
10.0 10.0	14122.0	6961.0 3.0	13242.6	14691.C 6.3	13242.6	14122.0	14122.0	2320.5	2520.3
255.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	19479.9 I.1	19479.9	1 F 2 6 6 . R	2026449	18266.A	1.111.	1.1711	17719.9	000
55.6 5.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5	2040.4	1842.4	1913.4	2122.7	1913.4	2040.4	2040.4	1.95.0	358 S
73.6 1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	82655.6 1.1	82655.6 1.1	17508.5	85986.9 1.1	7750A.5 1.0	33001.7	33001.7	75436.2	<b>9</b> 0
26.8 1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.	164373.6		154137.7	170996.6	154137.7	625A0.1	15339.5	112175.7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
440 PASTURE 10726.8 10726.R(ACRES) JSE AREA  400 PASTURE 10726.8 10726.R(ACRES) JSE AREA  400 DLAND 275.1 (1008) 41551NG DATA 4158.8 (ACCAERS)  400 DLAND 275.1 (1008) 41551NG DATA 4158.8 (ACCAERS)  400 DLAND 6489.0 6499.0 (ACRES)  400 170 SJRWARY TOTAL POTENTIAL GROSS ENSION  170 284.2 1492 03.7 1597 19.5 1771 20.0 1597 19.5  1.3 1.2 1.3 1.2 1.5	50 + E	50°2 49°4 1°02	(TONS) (ACRES) (TONS/ACRE)	FER ONLY	929.9	ACRES)			
99.9 .04 .04 .04 .04 .04 .04 .04 .04	2#1.5 10726.8	201.5 10726.80	4(8')	FR LAND	10527.3 (	bere's			
NTIAL GROS	275.1	275.1 6449.0	(TONS) 415 (ACRES) (TONS/ACRE)	SING DATA	4138.8	4CRES)		•	
0.0 12.4 6.2 -4.0	NT1AL 84.2	0 E O O O	159719.5 1.2	177120.0	159719.5	65323.4	7.8389.5		
	0.0	12.4	6.2	D	<b>6.</b> 2	61.6	0.45		

LAKE ERIE WASTEMATER MAMAGEMENT STULV Land mamagement alternatives : Best Managiment practice scewarius

IN: DIRE	SASIN: DIRECT DRAINAGE	71.42.42							
	EXISTING POT- GRDSS FROSION (TONS)	•	REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS) ACRED	FALL PLOWING JULY (TONS) (TONS/ACAE)	WINTER COVER CROP (TONS) (TONS)	MAKIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	EDUCES ILLAGE: MISEL P.34 TONS)	5331 MGMT. 54302 LAVD AREA (ACRES)	E41511M6 5316 .055 5 7 FACTOR (ACRES)
II CROPLAND S46 1	1341.9	-	1262.6	1415-5	1890.4 1262.6 1415.5 1262.6 181.2 3.6 3.6 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 3.5 5.5 5		585.2	556.1	227.3
CROPLAND 346 2	7671.5	6050.5	7218.3	8092.3 3.5	7218.5	1035.8	3334.3 1.5	2233.9	1947.2
CROPLAND 5	155897.0	57674.3 5.0	146687.9	164448.4	146687.9	155897.0 8.1	155897.0	13224.9	19224.A B.1
STOPLAND 4	10515.0	10515.0	5693.9 1.0	11091.h	9493.9	4569.8	4569.3	10269.7	000
CAGPLAND SMG 5	22418.0	5790.6 1.1	21093.6	23647.7	21693.6	22418.0	22418.0	3449.6	1136.7
CROPLAND S43 8	64207.9	64207.9	0.25.604	67729.8	60415.0	27904.7	27904.7	74378.5	• •
[	262051.3 2.4	145328.7	246571.5	276425.5	246571.5	212006.5	214705.7	103892.6	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IIVETARDS And orch.	5978.2 1716.0	2994.7 (T 1710.0 (J	(TOYS) JAI (ACRES) ARE (TONS/ACRE)	JATER AREA ONLY	+003.1 (ACHES)	ACRES)			
STASSLAND AND PASTURE	618.6 10655.2	618-6 (10NS) 10655-2(ACRES) ,06 (TONS)	ACRE)	JTHER LAND JSE AREA	18574.7 (ACRES)	ACRES)			
JOODL AND	542.4		-2 (TONS) 419 -2 (ACRES) -07 (TONS/ACRE)	41SSING DATA	18843.2 (ACRES)	ACRES)			•
MARY TOTAL	3.14887 TOTAL POTENTIAL (308092.2	M 13	290375.4	324543.7	290375.4	25JH15.2 1.7	253905.7 1.1	ROSS EROSION 174501.6 290375.4 324543.7 293375.4 253815.2 253903.7 149201.2 1.9 1.7 1.7 1.7 1.7	
»ERCENT REDUCTION:	0.0 0.0	+3.4	5.4	-5.3	5.6	18.6	17.5		

LAKE ERIE MASTEUATER RANAREMENT STUDY Land Management Alternatives : PFST Manas; WFUT PRACTICE SCFWARIOS

Comparison   Com	34514: DIAE	DIRECT BRAINAGE	PA 14F 11		COUNTY:		16 SAYDUSKY, AMIA			
132461.R   15756.7   191345.0   162291.9   27466.0   67735.8     17886.4   76012.2   84293.7   75420.7   9464.6   31992.9     1.6   1.5   1.7   1.4   1.7   1.5	350 084-	EXISTING POSEDSS EROSION (TONS)		Spalus Plating Court Touss	FALL P.3-1V9 09LY (TOYS/ACE?)	JINTER CONTR FRAN (TONS/ACET)	TETUCTION TILLAGE (TONS)	REDUCES TILLAGE: CHISEL BLOW (TONS)	SOIL MGMT. 713UP LAVD AREA (4C455)	(*151146 5)1L L355 5 1 FACTOR (ACRES)
TRR6.4   T6012.2   R4293.7   T3420.7   9464.6   31992.9	CADEL AND	170565.6		151566.7	141345.0	162291.9	20566.0	58733.4 58733.4	22556.0	22535.0
### 1299.7 130299.7 13985.8 12928.7 155876.7 155876.7 9.2  ###################################	P.L.A.MO	19265.7	17886.4	76912.2 1.5	84293.7	15420.7	9464.6	31942.3	49102.7	2144.4
19203.2 101256.6 112208.4 100468.6 105590.5 105590.5 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	24.40	135876.7	9-878-9	136299.7	144495-8	129285.7 8.1	135476.7 9.2	135476.7	1+826.3	14826.3
## 19203.2 101256.6 112206.4 100468.6 105590.5 105590.5 105590.5 2.0 10.3 10.9 10.2 10.8 10.9 10.9 10.0 10.0 10.0 10.0 10.0 10.0	LAND	1058.7	7.55.7	6.769.0	7506.5	5716.3 .5	29.44.65	2841.5	7168.5	00
#2149.5		105590.5	19203.2	101256.6	112288.4	100468.6	105590.5	105590.5	3915.0	4131.6
133258.5 556579.9 617329.8 55237.8 307247.4 378095.1 5.1 1.7 5.2 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	PLAND	#2149.5 1.0	82149.5	1.1777.	A 7360.4	78164.6 1.0	33105.0	U . WO II U U U U U U U U U U U U U U U U U U	19216.3	0.0
70	1	560506.7	-	-1	-1	552347.8	307247.4	•	183265.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7 6	VINEVARDS And orch.	177.0 862.2	627.7 (1 882.2 (A	G 85	EA JALY	2784.9 (	ACRES)			
76	STASSLAND AND PASTURE	712.1 15367.2 •05	712-1 (1 15387-24AC 05 (1	ACRE)	HER LAND E AREA	17055.4	ACRES)			
7 6	JOODL AND	890.4 16054.4	890.4 (1	TONS) 4 F LCRES) TONS/ACPE)	SSING DATA	7620.7 (	ACRES)	•		
0.0 42.4 4.1 -6.3 4.8 46.9	SUMMARY TOTAL	603490-2 2-7	7 6	57AR21.2	641614.9	574335.9 2.6	320571.7	393923.7	22329.9	
	PERCENT REDY	••	45.4	1.1	-6.3		46.9	34.7		

LAKE ERIE BASTEBATER MAMBÉEMENT STUDY U.S. ARMY CORFS OF ENGINCERS, BUFFALO DISTATET LAND MAMBÉEMENT ALTERNATIVES : BEST MAMBÉEMENT PRACTICE SCEMARIUS

	BASIN: DIRECT DRAINAGE NA NAND USE . EXISTING POT-R	MAINFIL T.REDUCE SOIL	SPRIKG	SOUNTY:	) 2	33 SENECA. 3450 ER MAXINUM	REDUCED	SOIL MENT.	6x 157 106
	60055 6005108 (1005) (1005/ACRE)	055 TO T ND EN 151 1NG TOMS/ACRE)	PLOMING TONS) (TONS)	PLOUING JULY (TONS) (TONS/ACRE)		REDUCTION TILLAGE (TONS) (TONS/ACRE)	3 ~ (		S)1L LOSS > 7 FACTOR (4CRES) (1ONS/ACRE)
-		25544.4	31315.2	2558.5 4.8	-	2.000 t to the total tot		1.11.1	4447.9
~	103787.1	93364.6	98532.1 3.5	111669.7	103787.1	15327.2	45981.7	20501.1	26677.5
-	1096.9	1096.9	3889.5	4.08.1	1096.9	4096.9	1096.3	2594.6	
	10749.3	10749.3	10205.1	11565.8	10749.5	4762.4	4762.4	10501.0	
'n	524.2	524.2	497.6	564.0	524.2	524.2	524.2	553.7	
•	567.8	507.0	558 · 1	632.5	367.6	260.4	260.1	503.2	
01	2763.7	5.0	2623.8	2973.6	2763.7	100.1	1224.4	22.2	22.2
1	1.10PLAND 155557.5 1	24933.9	147681.4	-I 167372.2 3.3	155557.5	30259.6	71091.7	53263.5	000000000000000000000000000000000000000
VINEYARDS AND ORCH.	900	T) 9.0 4.00.0	(TONS) JAI (ACRES) ARE (TONS/ACRE)	dater area only	SSI.O (ACRES)	ACRESI			
SRASSLAND AND PASTURE	47.9	47.9 (TONS) 1183.6(ACRES) .04 (TONS)	ACRE)	JTJER LAYD JSE AREA	3373.3 LACRESS	ac <b>res</b> s a			
•	234.7	234.7 (TONS) 4166.2 (ACRES	7 (TONS) + 15 2 (ACRES) 06 (TONS/ACRE)	+ ISSING DATA	7420.6 (ACRES)	ACRES	•		
OTAL	SUBBARY TOTAL POTENTIAL GR. 17654.2 2.6 2.6	64055 EROSION 141924.4 2.5	167707.1	19025.5	176634.2	34617.7	4.352.3	SUMMARY TOTAL POTENTIAL GROSS EROSION 176534.2 141924.4 167707.1 193025.3 176634.2 34617.7 81351.3 63633.3 2.8 2.8 2.3 2.7 3.0 2.0 2.0 .5 1.3	
}	:	19.1	5.1	-7.6	•	•••	53.3		

LANE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINCERS. BUFFALO DISTRICT Land Management Alternatives : Pest Management Practice Scenarios

		# # # # # # # # # # # # # # # # # # #	n o	••	••	893.1 3.6	•••	326.2						
		14916.5	22397.6	10140.7	13936.7	*635.7	8084.8	326.2	73429.7			•	239A97.1 21A223.2 67922.4 116753.2 120191.9 2.0 1.8 6 1.8	
	MAYIMUM REDUCED ACCOUTION TILLAGE: TILLAGE CMISSE PLOW (TOWS) (TOWS/ACAE)	107050.8 97175.2 13035.7 91872.3 19918.5 5.7 5.1 .7	13147.6	23651.5	5387.5	7760.2	1121.7	10724.7	103665.3				116755.2	7 TO
• 3413	MAY 19UM REDUCTION 71LLAGE (TONS)	13035.7	4093.1	23651.5	8.4688	1760.2	1121.9	3330.6	1	ACRES 9	4CRES!	ACTES)	67922.4	78.2
TV: 07 5815+ 3413	WINTER COVER CROVE (TOVS) (TONS/BCRF)	97175.2	30512.4	22659.2	12502.6	7428.1	2603.7	24889.3	197750.5	1265.2 (ACRES)	18157.3 (4CRES)	A747.5 (AC4ES)	218223.2	6.4
STANTES	FALL PLOWING ONLY (TONS)	107050.8	33613.2	24939.9	13773.2	8182.9 1.8	2868.3	27419.7	217847.0 197750.5 5.0 2.7	JATER Area only	JYHER LAND JSE AREA	41SSING DATA	239.87.1	
	u6 VACRED	73291.1 95990.2 3.9 5.1	30140.5	22363-1	12350.1	7337.5	2571.9	24585.8 75.4	338.9	(TONS) JATER (ACRES) AREA (TONS/ACRE)	ACRE)		215622.3	,,,
MA 1 NF 1 L	.REDUCE SOIL SPRIM LOSS TO T PLOBII AND EXISTING 74LY (TOYS) (TOYS)		31876.A I.4	23651.5	13061.6	5034.2	2720.1	1314.6		907.6 (T 1186.1 (A	1095.5 (TONS) 20489.9(ACRES) .05 (TONS)			1.76
DIRECT DRAINAGE NA	ENISTING POT-REBROSS EROSION ALTONS (TONS) (TONS) (TONS) (TONS)	-I	31876.8	23651.5	13061.6	7760.2	2724.1	26002.2	206:92.9	907.6	1099.0 20489.9 .05	2583.9 16338.6 .16	MT 1 AL 59.6 1.9	6.0
115IN: DIAEC		STOPLAND 1	CROPLAND 546 2	340PLAND 346 3	346 4	CROPLAND S46 5	210PLAND 546 A	240PLAND 346 16	34001440	SET ORCH.	SRASSLAND And Pasture	JOOFANO	SJAMARY TOTAL POTENTIAL GAS 22759.6 1 227CENT REDUCTION:	

LAME ERIE WASTENATER MANAGENENT STUGY
LAMB HANAGERENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCEMARIUS

JASIN: OIRE	DIRECT DRAIMAGE MAIL	MA 1WF 1c		COUNTY:	TY: 34 HURONe OHIO	N• 0HIO			
Sto gara	EN1311N6 POT.RE GROSS LOS EROSJON ANI (TONS) (110		DUCE SOIL SPAING 15 TO T PLOUING 0 EXISTING ONLY 0NS) (TONS) 0NS/ACRE) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	COVER CROP (TJNS) 17085 ACKE)		REDUCED TJLLAGE: CHISCL PLOA (TOMS)	SOLL MEMT. G10JP LAVD A1EA (4CRES)	ENISTING SOL LOSS > 7 FACTOR (ACRES) (TOMS/ACRE)
I STOPLAND	13428.5	5246.0	12763.8	5286.0 12783.8 14056.9	12836.8	1856.6	5622.7	1.504.9	1281.9
CROPLAND SRG 2	1012.0	1210-1	1726.1	1898.0	1733.3	250.7	159.2	8.44	355.8
S43 S43	24100.5	23122.2	22957.4	25243.6 3.0	23052.6	24100.5	24100.5	9292.9	1561.5
CROPLAND S46	5417.7	5417.7	5160.A 1.5	5674.7	5182.2	2269.9	2269.9	34946	
240PLAND 843 5	1651.4	1374.1	1573.2	1729.7	1579.6	1651.4	1651.1	6 · 0 · c	89.8 5.2
CROPLAND S46 8	175.5	173.5	165.5	191.7	165.9	12.7	12.1	1.6.5	00
11 240PLAND	.1		44366.5	6565.6 44566.5 46784.5 44550.4 30293.8 2.5 3.0 3.3 3.3 3.1 2.1	-1	30201.8	54476.4	14569.3	
AND ONCH.	9 2 9	0 0 0	(TOMS) (A) (ACRES) (A) (TOMS/ACRE)	AATER AREA 3NLY	257.6 (ACRES)	ACRES			
STASSLAND (10 PASTURE	**************************************	24.3 (TONS) 944.8(ACRES) 05 (TOVS)	ACRES	JTHER LAND JSE AREA	1601.2 (ACRES)	ACRES)			
400DLAND	132.5		12.5 (TOMS) 11: 14.3 (ACRES) -06 (TOMS/ACRE)	ISSING DATA	0.0	0.0 IACRES)		•	
TOO			44523.3	46941.3	44707.2	EROSION 44523.3 44541.3 44707.2 30358.6 34633.2 67.3 2.6 1.8 2.5 2.5 1.8 2.3	1	# * * * * * * * * * * * * * * * * * * *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
בנום שנת	9.0	21.4		-4.7	4.3	35.0	25.3		

LAKE ERIE LASTEMATER MANAGEMENT STUDY U.S. BRMY COPPS OF EVGINEERS. BUFFALD DISTRICT Lavo Management altermatives : Mest Manasiment Practice Scenatios

	AVD S31L LOSS AVD 7 F 4CT 34 (10MS/ARMF)		0.0	## ## ## ## ## ## ## ## ## ## ## ## ##	0.0		35409.5					
	SOIL MENT. SAJUP LAND AREA (ACRES)	2342.3	7499.4	13479.5	101.8.	1240.0	I1 35409.5				99678.9	
	<b>* -</b> 0	3949.4 2342.3 1.7	1.104.	21202.7	5452.5	8.69.	36445.2				49001.3	
01ML -WI		1319.1	1583.3	21202.7	5452+3	N. P. C.		ACRES	ACRES)	ACRESI	41524.8	
COUNTY: SI LCRAIN. 1410	LINTER CLVFR (RODE) (TONS/ACPE)	7701.8	1.5	20957.C	10498.6	973.2	49275.3	826.7 (ACRES)	18416.7 (ACRES)	18967.8 (ACRES)	65263.0	
מחנט	FALL PLOUING DALY (TONS)	A425.2	10113.0	22815.9 1.7	11484.7	1064.6	53903.4	JATER AREA ONLY	JTHER LAND JSE AREA	TISSING DATA	71129.1	
	DUCE SCIL SPRING FALL SS TO T PLOUING PLOUING D EXISTING PALY 344Y ONS) (TOLS) (TONS) ONS/ACRE) (TONS/ACRE)	2.5	A938.2	20165.6	10150.6	9.0	47541.4	) ACRE)	ACRE	15.3 (T3NS) 41 18.5 (ACTES) .04 (TONS/ACRF)	63192.6	
PAINF IL	EXISTING POT-REDUCE SCIL SPRING GROSS LOSS TO T PLOWIN FLOSIDY AND EXISTING THEY (TONS) (TONS) (TONS/ACRE) (TONS/ACRE) (TONS/	7829.4 5903.4 7446.5 3.3 2.5 3.2	9397.9	21202.7	10672.6 1.0	2.69.		1187.2 (TONS) 2043.7 (ACRES .58 (TONS)	432.3 (TONS) 1869.3(ACRES) .02 (TONS)	595.3 (TONS) 14789.5 (ACATS) 0.04 (TONS/A	680\$5 EROSION 63857.2	
PIRECT DRAINAGE MAIN	EXISTING POT SPOSS FLUSIDA (TOAS)	7R29.4	9397.9	21202.7	10672.6	8.00 8.00	50091.9	1187.2 2043.7 .58	432.3 18669.3 .02	595.3 14788.5	66296.1	
SASIN: DIREC	380 086	310PLAND 516 1	24 OPLAND 546	STOPLAND STG 3	340PLAND	CHOPLAND S46 5	113PLAND 50091.9	VINEYARDS AYD ORCH.	314SSLAND 44D PASTURE	4330LAND	3J4MARY TOTAL POTENTIAL GROSS EROSION 66290.1 63657.2 63192.6 71129.1 65263.0 41524.8 49001.3 89878.9 7	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT Land Hanagewent Alternatives: Best Wanasinert Practice Scenarios

JASIN: DIN	DIRECT DRAINAGE HAINFIL	MA INF IL		<b>N</b> 000	COUNTY: 16 CUYA	16 CUYAMOGA, OHIO			
350	EXISTING POT GRUSS EROSION (10NS) (10NS/ACAE)		REDUCE SOIL SPRING LOSS TO T PLOMING AND EXISTING JULY (TOMS) (TOMS)	F F	3000	**	TILLAGE: CHISEL P.Jd (TOMS)	SOLL MGMT. SADJP LAND AREA (ACRES)	E41511W6 S31L L0SS > T FACTOR (ACRES)
346 1	566.3 1 2.3	566.3	577.9	65 7-1 2-6	-[	89.2	208.9	252.6	
CAOPLAND 346 2	472.6	472.6	9.00. 1.1	537.7	162.4	71.9	232.3	436.3	30
SADPLAND 3	1229.4	1229.4	1211.6	1398.7	1202.7	1229.4	1229.4	1148.2	
CROPLAND S46	19.6	19.6	19.5	22.5	4.61	B	Ø •	23.0	00
SROPLAND 343 5	6.2	6.2 .3	6.1	7.0	6.0 8.		* • •	23.0	00
CROPLAND S46 10	3887.8 42.3	459.3 5.8	3631.5	4423.1	3403.3	591.6	1915.7	91.9	91.9
I		2773.6	6112.3	-I	6067.4	1996.1	3682.3	1.575.8	
JINEYANDS AND ORCH•		3000	(TONS) 4A (ACRES) 4R( (TONS/ACRE)	JATER AREA ONLY	45.9 (ACRES)	ACRESI			
SAASSLAND And pasture	2742.0 7463.1	2742.0 (TONS) 7463.1(ACRES) .37 (TONS/	ACRES	JTHER LAND JSE AREA	9538.7 (ACRES)	ICRESI			
43301.AND	2688.4		(TONS) 41: (ACRES) (TONS/ACRE)	4 ISSING DATA	96216.7 (ACHES)	ACHES)		•	•
STANAR TOT	NT 1 AL 62.2		80456.4	87013.3	## ### ###############################	51766.2	6.5506.9	1	
JERCENT REDUCTION:	9.6 9.6	29.5	ŗ	-7.3	3.5	36.1	21.7		

LAKE ERIE DASTEDATER MANAGEMENT STUDY U.S. ARMY CORPS OF EVITVEERS. RUFFALO DISTRICT Land Management alternatives : rest management practice scenarius

	54151186	> 1 FACTOR	(53434)			7 · 4 · 4	n • • • • • • • • • • • • • • • • • • •			<b>G</b> ' <b>E</b>	•	,	• •	•	• 34	6.64												[				
	SOIL MEPT.	340UP LA40	(1000)			9414.4		1577.3			1889.5		344.5		1	45.3												]	700000000000000000000000000000000000000	V-84.5		
	1 COUCED	TILLAGE:	( 10MS)	( TONS/ACRE)		9.9686	1.1	5359.0	~	•	1+96.7	•	237.8	٠.		1537.2	23.1		16327.5	•					•					1.14671		8.8
• 0H10	MUMIXAM	150UC 7 10%	1111465			1673.4	r.	1520.8			1+96-7	•	237.8			379.5				•		ACTES		( ACRES)		1	(ACRES)		•	7571.2		78.5
CHINIY: 20 LAWF. CHIO	21216	COVER	Capp	(TOMS)			2.0	11076.7	7.		1435.4	€.	22.8.1		•	2963.6	9.45		-1	2.0		1102.2 (ACTES)		22755.8 (ACRES)			3375.6 (ACRES)			33852.6		3.9
Cultur	1111	PLOSTAG	) VL V		1343/3/41421	_	5-2	0 76 91 1		}	16A9.2	1.0	268.4		•	3487.7	76.0			34801.2	:	JATER		THER LAND	JSE AREA		41SSIVG DATA	· .		39529.0		-12.2
	5 4 5 6 5	PLOSING	JULY	(10%)	DNS/ACRE) (TONS/ACPE)	7 7742.	2.5		122.5M.B	•	1479.2			2000	:	1044.0	6.44			30473.6	•••		(TOAS/ACRE)					.10 (TOMS/ACRE)	· · · · · · · · · · · · · · · · · · ·	34839.7		1.1
	341 605 1145 351 654	55 TO T	5	(TOWS)	(TONS/ACRE)		12746-1		12393.1	•	1496.7	•		237.A	•	2.831		•		2702		0.0 (TONS)		A15.6 CTONS)	13341.7(ACRES)		1163.5 (TONS)	11953.4		SIGNATURE CANADAS ENGLAS SIGNAS SIGNA	•	11.7
LAND MANAGEMENT ALIENA	30161111	EMISTIME POINT	35		(TOWS/ACRE)		15625.9	}	123A3.7	9:1	1406.7	6.		237.8	~	,	2090-1	67.5		30834.2	2.0	9.0	0 p		13341.7	•	1163.5	11963.9		35238.4	F.	C. I OM :
	ASIN: DIREC	TAND USE	· •	. •	•		CASPLAND	97.0	PLAND	346 2		240PL4 MD		CAOPLAND	346 5		22	343 10		STOPLAND		VINEVAROS	140 ORCH -		STASSLAND LVD PASTURE		4300LAND			SJ44ARY TOTA		SERCENT REDUCTION:

LAKE ERIE WASTEWATER NARAGENENT STUDY U.S. ARPY COKPS OF ENGINEERS. BUFFALD DISTRICT Land Hanagenent Alternatives : Best Managenent Practice Scenaalus

	EAISTING \$31L LOSS > 7 FACTOR (ACRES)	• • •	3.9.6	99	99	00					
	5316 4647. 540UP LAVD 44E4 44C453	8, 4.00t t.00t	7210.5	23.0	964.5	3.1 4 o B	1-1				SJAMARY TOTAL POTENTIAL GROSS EROSION SJAMARY TOTAL POTENTIAL GROSS EROSION SGASS.4 15639.5 19186.5 16635.4 990.5 15504.0 46684.7 SZACENT REDUCTION: SACENT REDUCTION: SACENT REDUCTION: SACENT REDUCTION: SACENT REDUCTION:
	TILLAGE: CMISEL PLOW (TOMS)	1679.9	1662.9	1.3	279.3	20.5	9685.1				15504.4
ABULA, OHIS	74	1.097	3.70.0	42.8	279.3	9.3	4562.1	ACRES)	ACRESI	ACRES)	4990.5
COUNTY: 24 ASHTABULA, DHEO	JINTER COVER CROP (TONS)	1901.7	#675.0 1.2	42.6 1.9	279.3	23.3	10922.1	296.7 (ACRES)	11385.5 (ACRES)	3306.7 (ACRES)	10635.4
MACO	FALL PLOWING ONLY (TDNS)	2282.1 1901.7	10410.0	51.3	335.2	27.9	13106.5	JATER AREA ONLY	JTHER LAND JSE AREA	41SSING DATA	19186.5
	NG NG NGCRSS	1901.7 1870.6	8530.4	42.1	274.7	22.9	10740.1	(TONS) JAT (ACRES) ARE (TONS/ACRE)	ACRED	14.5 (TONS) 418 16.7 (ACRES) 07 (TOUS/ACRE)	16639.5
MA INF 11.	<b>₩02</b> ~ <b>=</b>		1250.7	1.9	279.3	23.3	][ 9-76+6 6-	2636.3 C 2686.7 C	467.8 (TONS) 12584.0(ACRES) .04 (TONS/	1194.5 (TONS) 17796.7 (ACRES) -07 (TONS/A	640SS EAOS 10- 15302.5 .5
T DRAINAGE	EXISTING POTONI GROSS L ENOSION A LTONS ACRED (	1961.7	8675.8	12.0	279.3	23.3	10922.1	3858.7 2686.7 1-14	12584.0	1194.3	16835.4 16835.4
3151h: DIRECT DRAINAGE NAI	AND USE E	I SAG I	343 PLAND 2	S46 3	243PLAND 346 S	CROPLAND S46 6		FINEY ARDS AND ORCH.	STASSLAND AND PASTURE	4300LAMD	JAMARY 1074L POTENTIAL GROSS ENOSION 15302.5 1

LAND RANGEMIE WASTELATER MANAGEMENT STUDY U.S. ARRY CORPS OF ETSIMEERS, ROFFALD DISTRICT

Masin: Din	DIRECT DRAINAGE MAIN	11 JAI TU		NOUJ	CHUNEY: 24 ERIC	2n ERIE. PENUSTLVANIA	•		
380 USE	EXISTING PO GROSS EROSION (TONS)	EXISTING POT-REDUCE COLL SPRIVE FALL  ENGSION AND EVISTING DALY DALY  (TONS) (TONS) (TONS) (TONS) (TONS) (TONS) (TONS)	SPRING PLDAING ONLY (TONS)	rall PL)*1V° 9NLY (TONS) (TONS/ACQT)	WINTER COVER CROD (RODS) (TOVS) ACRE)	TATER MAKINUM REDUCED  OVER REDUCTION TILLAGE:  ROP TILLAGE CHISEL PLOM  TONS? (TONS) (TONS)	REDUCED TILLAGI: CMISEL PLOM 1704S) (TONS/ACRE)	\$016 MGW1. \$12JF L146 41E4 (ACH?S)	74151146 5316 - 355 57 FACTOR (FORES) (TOMS/ACRE)
TADPLAND S46 1	41380.5	41235.3 2.3	**************************************	47164.9 2.4	43935.5	0.6648	24927.4	17911.5	89.0 5.5
233PLAND 345 2	52332.6 2.9	55925.9 2.6	57133.0 2.7	66559.4 3.1	57760.8 2.7	12556.7	33903-1	21181.9	1146.6
CROPLAND 346 3	119498.8	72619.2	116929.1	136293.0 5.6	118213.9	119498.8	119498.8	21206.1	24286.4
113PLAND 4	2618.5	2610.5	2554.4 .A	297%-5	2592.5	1515.8	1315a 8 a 8 151 8 a 5	3054.2	0 0 0 0
240PLAND 346 5	617.6	617.6	604.3	\$68. 6.	610.9	617.6	617.5	1502.4	0.0
223PLAND 546 16	37247.2	6770.7	36446.2	42455.9 18.9	36846.7 16.4	9010+1 3+6	21627.1	2243.7	2243.7
SADPLAND	143PLAND 259743.2 17	179779.2	25e157.5	9779,2 254157.5 296051.4 256950.3 2.6 3.6 4.2 55950.3	256950.3 3.7	151098.0	201190.1	1	
VINEY ANDS	10284.1 2915.8 3.55	5567.4 (TONS) 2915.8 (ACRES) 1.91 (TOUS)	CR5	AATER Area only	3123.4 (ACRES)	ACRES)			
SRASSLAND AND PASTURE	1935.5 15923.4 .12	1935-5 (TONS) 15923-4(ACRES) -12 (TONS)	ACRE)	JTHER LAND JSE AREA	44656.8 (ACRES)	ACRES)			
43361440	16583.1 67202.5 .25		3-1 (7045) 419 2-5 (ACRES) -25 (TONS/ACRE)	415SIVG DATA	10505.7 (ACRES)	ACRES)	•		1 d d d d d d d d d d d d d d d d d d d
SJAMANY TOTAL POTE SJAMANY TOTAL POTE SBB1 SBB1 SERCENT REDUCTION:	87.18 97.5 1.8		302192.2	346933.5	305174.8	192120.0	245624.9	S EROSION 2750-6 302192.2 346933.3 305174.8 192120.0 245624.9 166647.2 1.3 1.4 2.1 1.7 1.0 37.7 20.3	-

LAME ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALO DISTRICT Land Management alternatives: Pest Management Practice scenarios

BASIN: DIN	BESTE: DIRECT DRAIMAGE NA	MA SWF 3.L.		<b>M</b> 000	COUNTY: 27 CRAUFORD, PERMSYLVAMIA	FORD. PERMSY	V38414		
750 GRF1	EASTING POT-NE 64053 LC ERGS.100 A 41 (1005) (1005) (1005) (1005) (1005)	LOSS TO T PLOWING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS)	SPRING PLOUING F OMLY (TOMS)	DUCE SOIL SPRING FALL MINTER MAKINUM 185 TO T PLOWING PLOWING COVER REDUCTION 10 EXISTING ONLY CROP TILLAGE 10NS) (TONS) (TONS) (TONS) 10 NS ACRES (TONS ACRES) (TONS ACRES)	LINTER COUER CROP (170%S) (170%S)	44x 1908 4 2 1 4 5 6 4 7 1 1 4 6 6 4 7 7 1 7 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9		CDUCED SDIL 46HT. SILAGE: 640UP LAND MISEL 2-LOW 41EA MIS	\$31L LOSS > 7 FACTOR   ACRES    (1045/ACRE)
346 3	146 1 5 5.2	110.6		11001 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	203.5	96.0	-	39.5	39.5
SAGE SAGE	232.1	158.1	226.3	269.5	232.1	T 80 .	155.3	1	2.9
1	1.00LAND 435.6 3.7	•	424.7	216.7 424.7 506.4 435.6 119.K 2.3 3.6 4.5 3.7 1.0	435.6	-1	286.6	110.6	***************************************
JINEYARDS AUD DRCH.	***	000	0.0 (TOMS) 4A 0.0 (ACRES) 1A 1.00 (TONS/ACRE)	AATER AREA DNLY	0.0	0.0 (ACRES)			
34ASSLAND AND PASTURE		0.0 (TOMS) 0.0(ACRES) 0.00 (TOMS/	ACRES	JTHER LAND JSE AREA	158,1 CACRES)	ACRES)			
4330LAND	56.5 316.5	56.3 (TOMS) 316.3 (ACRES) .18 (TOMS/A	16.3 (TONS) 11 16.3 (ACRES) .10 (TONS/ACPE)	4 ISSING DATA	0:0	0.0 (ACRES)		56-3 (TOMS) 41SSING DATA 0.0 (ACRES) 316-3 (ACRES) -18 (TOMS/ACRE)	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
\$ JANARY 701		SIMMARY TOTAL POTENTIAL GROSS EROSIONS SIMMARY TOTAL POTENTIAL GROSS EROSION AND	461.0	562.7	491.9	176.1	346.9	6.624	
»ERCENT REDUCTION:	0.0 0.0	32.3	2.2	-14.4	3.0	~ .	29.3		

LAKE ERIE WASTEVATER NAMAGEMENT STUDY U.S. AFFY CRRPS OF EVITMERS. BUFFALO DISTRICT Land namagement alternatives : Pest Management practice seenaries

STREET DIRECT DRAINED MAINEL	11 170 11			COUNTY:	TV: 2ª CHAUTANGER,	TAUGHA, AEW YORK	YORK	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ERISTING POT-REDUCE SOIL SPRING FOR CAOSS LOSS TO PECULIGE PER PROSION AND EVISTING FOLK (TOKS) (TOKS) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE) (TONS/ACRE)	ARDUCE SOIL SPRING FIGURES TO THE STATE OF T	SPRING PERSONAL FA		FALL OULY TROUS (TONS/ACRE)	TOUR COME COURT CALL TOURS (TOUS)	### *#UF # ## ## ## ## ## ## ## ## ## ## ## ##	#EDUCED TILLAGE: CMISEL PLOW (TOWS) (TOWS/4C4E)	\$31L 46#f. 690JP LAVD 44EA (4CR:S)	
40PLAND 314614.3 R73.66.7 113195.2 1	87306.7 113196.2 1 5.0 3.0	113196.2	-	129695.1	114614.3	154 54.4	44444.3		2.833.2
**************************************	9 20 4	\$ 0265.0 2.2		441711.5 2.5	* 0 P B 2 . A	5637.2	15837.3	1.1961.	•••
103595.8 87667.8 191617.6 1 4.9 3.0 4.8	141617.6		-	162386.1	1.43585.8	1 4 5505.8	143505.3	23222.6	29222.6
1941.5 1971.5 1955.4 1.3 1.3 1.3	6.	1955.4		2242.2	1981.5	769.1	763.1	1534.5	<b>.</b>
1887.6 1668.1 1862.8 2.7 2.3 2.6	1.86	1862.8 2.6		2156.0	1847.6	1867.6	1887.5	711.7	535.7
42077.3 4714.8 41523.7 4 26.6 3.0 26.3	41523.7 26.3		•	47613.A 30.2	*2077.3	5813.3	16332.5	1579.0	1579.0
233PLAND 344669.3 224141.7 54055f.6 390246.7 4.9 4.2 4.9	224141.7 340531.6 3902 2.8 4.2	.1	3965	390246.7	0.696948 8.496948	344869.3 173447.9 4.3 2.2	222821.5	}	
1772.4 1772.4 (TONS) JATER 1681.2 1681.2 (ACRES) 18EA ONLY 1.11 1.11 (TONS/ACRE)	) ACRE)	) ACRE)	5 T	۲,	3113.5 (ACRES)	(ACRES)			
1835-8 1935-8 (TONS) )THER LAVO 11342-1 11342-114ERFS) JSE AREA -09 ,79 (TONS/ACRE)	4CPE)	4CPE)	45R L	07 4.	23575.8 (ACRES)	(ACRES)			
17961.2 17961.2 (10NS) 4[SSING DATA 2917B.2 (ACRES) 73367.8 73367.8 (ACRES) -24 .24 (TOVS/ACRE)		TONS) 4 ISSING	SS 1 M G	DATA	29178.2 (4CRES)	(ACRES)			9 8 8 9 6 6 6
SJAMARY TOTAL POTENTIAL GROSS EROSS EROSSON 429712-3 287828-8 424379-5 483		424379.5 4RS		4R3041.6 2.5	429712.3	228251.5	266277.2	195684.7	
33.0 1.2		1.2		-12.4	0.0	• 6.4	33.0		

LAMÉ ERIÉ MASTEMATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. BUFFALD DISTAILT Lamb management alternatives : Best managinest practice scenarios

BASIN: DI	DIRECT DRAIMAGE	MAINFIL		NOOD	TY: 30 CATT	COUNTY: SE CATTARAUGUS, NY (INVALID SOILS)	CINVALID SOI	(5)	
380 011.	ENISTING PO GROSS EROSION (TONS) (TONS/ACRE)	LOSS LOSS 170K	SPRING PLOWING G ONLY (TONS)ACAE)	77	COVER COVER CROP (TONS)	JUTER GARTMUN GEDUCED COVER REDUCTION TILLAGE: CROP TILLAGE CHISEL PLO (TONS) (TONS) (TONS)	4EDUCE) 531L TILLAGE: 642JA CMISCL P.OW AREA (TOWS) (4C2E	4641. LAVD	\$316 .255 \$316 .255 \$3 T FACTOR (ACRES)
STE	10PLAND 2297.3	1534.5	2267.1	2539.6	2599.6 2297.3	317.4	2.168	\$11.5	
S46PLAND 3	13.0	1467.6	12.9	7210.6	6372.2	5372.2	6572.2	189.5	10.0
SAGPLAND S46 10	5486.3 48.5	+ 66.3 3.0	5324.3	6314.3 45.6	2 • 0 • • 0 • • 0 • • 0 • • 0 • • 0 • • 0 • • 0 • • 0	746.2	2096.2	133.4	133.4
J. C.		<u> </u>	13844.7	3402.6 13844.7 15921.1 14069.b 3.0 12.2 14.0 12.4	1,069.6	7435.7	9360.1	1134.2	
ALD ORCH.	000	0.0 (TOUS) 0.0 (ACRES 0.00 (TONS)	ACREJ	AATER AREA ONLY	HY.O CACREST	ACRES)			
SAASSLAND AVD PASTURE	2+8.3 533.6 •74	248.3 (TONS) 333.6(ACRES) 74 (TONS)	ACRED	JTHEK LAND JSE AREA	644.9 IACRES)	ACRES)			
OODLAND	2280.5 2513.1	2280.5 (TONS) 2513.1 (ACRES) .91 (TOUS/A	10.5 (TONS) 41 3.1 (ACRES) .91 (TONS/ACRE)	415SING DATA	378-1 (ACRES)	ACRES)			
SJAMARY TO	NT I AL 75.1		17972.4	2,202,2	14175.1	10910.9	13018.1	ROSS EROSION 17972.4 24.202.2 18175.1 10910.9 13018.1 4359.0 1.5 4.1 4.2 2.5 3.0	* * * * * * * * * * * * * * * * * * *
FREENT REDUCTION:	0.0	64.3	:	-11.2	0.0	0.0*	23.1		

LAKE ERIE BASTELATER MANAGEMENT STUDY U.S. AFPY CORPS OF FYDINGERS, PUFFALD DISTRICT LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCEVARIOS

.440 USE	GRUSTING POT-	REDUCE SOIL LOSS TO 1 AND EXISTENT	Spalve Spalve Spalve	FALL 201743 30LY	EUNER CUVER CRJP	MAXIMUM PEDUCTEUM TILLMGE	#EDUCED 501L 11LLAGE: 040U CMISEL PLOA 44EA	531L 4641. 543UP LA40 44E4	541511M6 531L LOSS 531L LOSS 54 FACTOR
	(TONS)	(TONS/ACRE)	(10%/45)	110.45/ACR()	TONS) (TONS/ACAE) (TONS/ACAE) (TONS/ACAE)	(TONS/ACRE) (TONS/ACRE)	(TONS/ACTE)		11045/ACRE)
CADPLAND 1	-1		57290.3 51302.0 68136.0 2.1 2.3 2.7	68136.0 2.7	59106.5		44955.4	54700.5 14048.7 44455.4 24485.3	2135.0
CROPLAND S46 2	19051.2	19651.2	1+603.0	217.0. H	19051.2	4482.6	14344.5	13299.2	0.0
343PLAND 346 3	43630.0	43630.0	42503.4	49789.5	43630.6	43530.0	43630.0	25775.5	
CROPLAND S46 4			668.3	781.U	684.4	\$15.\$	515.5 .5	1023.0	60
STOPLAND S46 5	439.8	5.95. E.	429.0	501.3	50 . 50 . 50 .	8.684	8.83.8	1289.9	
CROPLAND 346 10	37614.1	7027.7	36729.0	42924.3	37614.1	4.00.R.	24521.2 11.0	2579.8	25.05. 14.6
CAOPLAND	1	128122.9	157334.7	1 A 3 A 7 3 . 0	161125.9	71966.3	132206.1	# # # # # # # # # # # # # # # # # # #	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VINEYARDS AVD ORCH.	2696.8 1779.2 1.52	2065.0 (T 1779.2 (A 1.16 (T	(1)45) JATES (ACRES) ARFA (TUNS/ACRE)	JATER ARFA ONLY	2646.5 (32RES)	ACRES)			
SAASSLAND AVD PASTURE	1374.6 16258.5	1374.6 (TONS) 18258.5(ACRES) .09 (TONS)	DCRE)	JTHER LAND	309\$7.2 (4CRES)	1CRES)			
JOODLAND	10702.9		(TONS) 418 (ACRES) (TONS/ACRE)	MISSING DATA	2693H.7 (ACRES)	ACRES)		10702.9 (TUMS) 9 9 15SING DATA 2699H.7 (ACRES) 47859.2 (ACRES) -22 (TUMS/ACRE)	0 0 0 0 0 0 0 0 0
SJAMARY TOTAL	AY TOTAL POTENTIAL SR 210628.3		206088.5	237856.4	213628.3	103965.9	1.75998.3	163708.9	
TREENI REDUCTION:	0.0	18.6	2.2	-12.4	0.0	50.7	16.4		

LAME ERIE JASTEVATER MARAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS. PUFFALO DISTAICT LAND NAMAGEMENT ALTERNATIVES : 6EST M'4AG?MENT PRACTICE SCEMANIOS

MISIN: DIR	DIRECT DRAINAGE MAINFIL	HAINFIL		MUCO	COUNTY: 62 ALL	IN BASIN			
	Existing Po Gross Erosion (Tons) (Tons/ACRE)	_ Z ~	NEWAL	W	4 INTER COVER CROP (TONS)	**	3 ~	SOUL MENT. Gloup LAND AREA (ACRES)	EXISTING \$31L LOSS > 7 FACTOR (ACRES)
CAOPLAND S46 1		·	638922.4	712193.4	636283.4	4.63616	**************************************	163931.6	66719.4
333PLAND 386 2	573410.8	528074.9	550914.5	\$20533.2 1.7	559901.6	90744.2	268965.9	370109.5	39303.1
STOPLAND 3	774384.2	154368.4	745955.4	642972.0	752766.6 3.8	77438422	77+384.2	195716.9	95646.8
: 4.3 PLANO 546 4	184154.2	184154.2	175090.4	193200.5	178029-1	79427.0	79427.3	205531.4	99
SAS SAG S	155682.9	49246.0	148882.0	165859.0	148416.2	155682.9	155682.3	57361.6	18.2
CAOPLAND S46 6	23.5	23.3	22.9	27.9	23.5	9.3	20.5	114.0	9.0
SASPLAND 8	255281.7	255281.7	241735.6	268601.4	241600.9	104890.3	104890.3	257322.3	•••
SAGPLAND SAG 9	2553.0 .8	8.868	2414.5	2708.8	2408.7	9.555 8.	2553.0	3317.9	89.0
SAJPLAND SMG 10	158468.7	21054.7	154504.2	177843.6	156742.1	28241.9	85972.7	1052.1	7052.1 22.5
CAOPLAND	2758135.9 1975634.3 2.2 1975634.3	•	2650442.4 2.1	2984030.9 2.4	2676171.9 2.1	1333902.2	1770379.9	1255457.9	**************************************
FINEYARDS	27525.3 16626.1 1.66	18618.4	(TONS) 41 (ACRES) 48 (TONS/ACRE)	dater Area only	34304.2 (ACRES	ACRESI			
SRASSLAND 440 PASTURE	13696.8 264883.6 .05	13693.3 (TONS) 264823.6(ACRES) .05 (TONS)	ACRE)	JTHER LAND JSE AREA	458690.2 (ACRES)	ACRESI			
JOODLAND	59766.4 359156.5	59766.4 (12VS) 359146.6 (ACRES	ACRE)	IISSIVG DATA	721494.2 (ACRES)	ACRESI			
JAMARY TOT	SJAMARY TOTAL POTENTIAL GROSS SJAMARY TOTAL POTENTIAL GROSS 1.5	680SS EROSION 2862646-2 1-1	5792870.9 1.4	4252725.5 3828339.3 1979009.0 2579695.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	3828539.3	0.6006761		252750A.3	
PERCENT REDUCTION:	UCT 10N: 0.0	27.4	8.8	-7.9	2.9	49.8	34.5		

Lake Erie Drainage Basin Summary

LAKE ERIE BASTEVATER MANAGERENT STUDY U.S. ARMY FORPS OF FURINFERS. PUFFALD DISTRICT Land panagement alternatives : Rest manasiment practice scevarios

34514: ALL	BASINS IN DAT	ATASET		COUNTE	TT: 62 ALL	IN AASIN			
340 05.	EXISTING POT GROSS EROSION CTONS) (TONS/ACRE)	MEDUCF SOLL LOSS TO T AND EXISTIN (TONS)	SF# 1%6 PLOW 1 W 6 G ONLY (TONS/ACRE	FALL PLOWING ONLY (TONS/ACP!	41V1E4 CQVER CQ3P (TQ4S)	94KT9U9 9EDUCTION TILLAGE (TOVS) (TOVS)	3 -	\$312 46 640UP L 44EA 14C45S)	EVISTING 531L LOSS > T FACT 38 ( TOVS / ACR 5)
143PLAND	7371339.0 7.1	3225409.2	7045922.0 6.7	7475709.0	7108404.0	1100263.0 5315495.3	,		. ~ •
S46 2	6.595781.0 3.0	436A725.0 2.0	6394125.0 2.8	6804174.0 3.1	6164433.0 2.8	946654,2	2845956.J	2164249.0	938158.9
213PLAND S46 3	2079468.0	1512629.¤ 2.5	1994144.0	2242209.0	2315742.0	2079468.0	2079469.3	513290.7	277222.3
: 10PLAND	924982.4	924129.4	479445.2	974326.1 1.0	им5960.1	390487.9	593487.98	1005711.1	822.9 3.3
CROPLAND S45 5	483023.1 1.3	309716.5	4606F0.2	514419.5	*63156.6 1.2	443023.1 1.3	483023-1 1-5	384412.9	11633.7
343 6	23.3	23.5	22.9	27.4	23.3	9.3	20.5	114.8	0.0
CROPLAND SWG 7	6685.A 3.1	4939.5	6261.7	6799.P 3.2	5466.9	6645.4	6685.9 3.1	2135.0	A9.0 21.5
SAGPLAND SAG	880211.4	880211.4 1.1	824999.4 1.1	916476.5	A28363.2	353827.2	353827.2	769052.7	
CROPLAND 343 9	363909.6	308663.3	342P95.3 1.3	376714.3	346421.4	363909.6	363909.5	260881.4	1698.2
313PLAND 313	1262413.0 38.3	106034.4	121 H235.0 36.9	1376230.9	1233730.0	200054.7	588412.4	32373.5	3.2478.6 84.8
STOPLAND	19767836.6	11641486.9	1987675G.7 3.0	210924R6.1 3.9	19053690+5 3.0	592436248	10+2A185.5	6272969.2	
AIVEVARDS	43329.5 27910.6 1.55	31054.3 ( 27910.6 (	(TONS) 4 (ACRES) 1 (TONS/ACRE)	JATER 1REA ONLY	208774.7	(ACPES)			
344SSLAND 143 PASTUPE	81979.6 : 946526.7	61976.1 (TOMS) 944657.1(ACRES)	ACRE)	JTHER LAND JSE AREA	1363795.0 (ACRES)	(ACRES)			
JOOPLAND	270283.4 1413491.6	26#52#.9 ( 14106º6.7 (		ISSING DATA	28P9222.6 (ACRES)	2889222.6 (ACRES)			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
POL ARESTO	NT 1 & L 92.8 2.3	78055 FR05104 16055473.9 25694926.1 1.4 2.2	5694926.1	2 P & \$ 05 P 0 . 3	25732294.3	9.26550.9	+31607.9	57119.5	
PEACENT MEDUCITOMS	0.0	49.2	:	-6.5	3.5	68.7	45.5		